

The image shows the front cover of an old book. The cover is decorated with a dense, intricate marbled pattern in shades of grey, black, and white. A central rectangular label, bordered by thin lines, contains the title in a bold, sans-serif font. The spine of the book, visible on the left, is a solid dark color.

O R C H I D S .

Sosse, P-11-

04-1268

#C9064

G768m

pt. 2



*Library
of the
Massachusetts
Horticultural Society
Boston
Gift of
Albert Cameron Burrage
1859-1931
June 28, 1931*

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Acerides odoratum.

1863. January 1.

8 leaves. rather yellowish.
10 roots. the two of last yr. 9 inches.

March 21. A new leaf appears.
also a flower-shoot.

May 24. First flower open.

26. All the flowers on the
spike 11 open: 1 aborted.

June 14. Flowers withered.

23. A new leaf appears.

July 11. A new root at base of old
flower-stalk.

Aug. 15. Another root, and leaf.

Sept. 17. Another root, & leaf.

1864.

11 Leaves.

Feb. 4. A new leaf appears.

10. Surfaced; (Cocoa & Sphagn.)

Mar. 26. A flower-bud.

Apr. 27. A new leaf peeps.

May 25. First flower open (of 6)

July 20. Flowers done.

Aug. 19. A side growth.

1865

14 leaves, & 2 shoots of 2 leaves each

Jan. 4. Surfaced.

May 2. Mossed & wired it.

1866.

Leaves 18 + 7 + 6

Jan. 16. Surfaced.

May 26. Filled up hollows in the
basket with crocks.

June 18. 3 leaf-peeps.

To Folio 24.

Calanthe vestita.

1 Bulbs. 2 large. 4 small.

Fl. Shoots, 2 abortive, rotted.

1863

Jan. 9. Repotted; the 6 bulbs
remote from each other.

Feb. 27. 4 Growth-buds appear,
two on each of the large bulbs.

Mar. 12. A bud on bulbs 3, 4, 5.

Apr. 2. 2^o on " " " " 6.

16. A third bud from large 6.

May 9. Another bud.

Aug. 19. Flower-shoot from fine
bulb.

Sept. 11. 3 more d.^o

Oct. 28. First flower opens.

Dec. 13. Last " " "
(13 in all; 11 + 2.)

1864.

12 lbs B. (6 lbs.) 2 sp. of flowers.

Jan. 21. Cut off last flower.

Re-potted in 2 pots.

Mar. 25. A growth-bud.

May 17. 4 more " "

26. A gro. from The Cool pot.

June 11. 3 more " " "

Sept. 6. A flower bud.

7 leafless B. 1 fl. spike.

Feb. 18. Fl. done. Potted 9 bulbs.

Mar. 27. First growths.

Sept. 19. 2 Flower spikes

Dec. 8. Flower (Spike 1st of 7 fls.)

To folio 7.

Calogyne speciosa.

Bulbs. 10 lfs.: 9 leaved.

1863

Jan. 10. Re-potted.

Apr. 3. A flower-bud growth.

May 25. 5 growths.

June 3. 2 more growths.

July 26. Flower open. 29. D.

Sept. 12. Flowers done.

Oct. 24. New flower open.

1863 & 4

12 lfs., 6 lfd. B. 10 growths.

Jan. 25. To a wire-basket.

May 17. 4 growths.

Aug. 18. Flower spikes appear.

Sept. 15. First flower open.

1864 & 5

11 lfs. 11 lfd. B.; 12 gro. 1 fl. sp.

Jan. 16. Flowers. - 28th fl. done.

1865.

21 lfs. 12 lfd. B. 9 gro.

Jan. 19. Surfaced.

July 10. A flower bud.

Aug. 11. A flower open.

19. Done. And fl. bud

1867.

15 lfs. 17 lfd. B.; 12 growths.

Jan. 25. Re-basketed.

June 5. 9 growths. 27. A fl. sp.

July 15. 5 fls. spikes. 18th Flowers (10?)

Sept. 12. Done fls.

Cattleya crispa. L.

Bulbs. 7 lfs.

9 lfd.

1 strong growth.

All (except the last), leaves, much shrivelled.

1863

Mar. 14. Re-potted, using much Cocoa-fibre.

10. Began to grow, about now.

May 12. A new growth-bud.

16. 2 more - " - " -

June 28. 2 more - " - " -

1863 & 4.

2 lfs., 15 lfd. B. (4 of th. immature)

Jan. 23. Surfaced. United with this, No. 2. (P. 7.)

June 5. 2 growth-buds.

30. 1 " - " -

1865

2 lfs. 17 lfd. (3 immature, 1 st. gro.)

Jan. 17. Potted.

June 20. 3 growth buds.

1866.

3 lfs. 18 lfd. B. 4 gro. only matured

Jan. 22. Surfaced.

Feb. 1. A new growth.

May 6. 2 " 20

25. 1 " 20

July 27. 4 " 20

1867.

3 lfs. 22 lfd. B.; 5 growths.

Mar. 15. Shipped. Ap. 27. A gro.

Aug. 8. 7 growths.

Dec 31. at spathe.

Cattleya Forbesii.

2 lvs. 4 leafed b. 1 Bud.

1863.

Mar. 28. A growth-bud, from the progressing growth.

31. Flower-sheath appears

May 21. Flower sheath appears in the growth of 28 Mar. The other was abortive.

July 27, 29. 2 Flowers open.

Aug. 28. Flowers wither.

Sept. 30. A new growth.

Nov. 13. Bought 7 seedlings & added. 1 leafless, 3 leafed Bulbs. much stronger than the old.

1864.

3 lvs, 8 lfd B. 1 str. growth.

Mar. 24. A new growth.

July 1. A fls. spathe formed.

Aug. 16. One flower open: (2 more aborted)

Sept. 3. Fls. spathe in new growth.

Sept. 10. First flower done.

Oct. 25. One flower open. —

Dec. 7. Flower done.

1865.

4 lvs. 12 lfd. 1 Bulbs.

Jan. 17. Potted.

Apr. 26. A growth-bud

May 9. 1 — " — " —

July 16. A flower-spathe.

18. Another — " — " — } about

Aug. 27. A new growth.

Sept. 28. A flower spathe.

Nov. 6. Flower open (no more)

Dec. 7. Flower done.

To 7.

Cattleya Mossiae. 1.

3 leafless B. { 1 Strong growth
5 leafed " { 1 Fl. sheath.

1863

Mar. 4. Re-potted, using much cocoa-fibre.

12. The Flower-bud appears within the sheath.

Apr. 4. Flower sheath bursts.

17. A growth-bud.

21. 2 lovely flowers open.

May 6. Flowers done.

June 3. A growth-bud.

Aug. 26. Flower-sheath appears.

1864.

4 lvs, 7 lfd. B. 1 Fls. sheath.

Jan. 25. Potted.

Mar. 30. Surfaced with Co. & Sph.

May 17. 2 growth-buds.

Sept. 6. A flower spathe

1865.

5 lvs. 7 lfd. Bulbs. 1 fl. spathe

Jan. 12. Potted; wintering without

the 3 spec. in Nos. 6, 6, & 11.

May 9. A growth bud.

June 3. One fls

20. 6 new growths.

1866.

7 lvs. 21 lfd B.; 4 gro. 2 fl. spa.

Jan. 22. Surfaced.

May 10. 2 flowers open (5 in all)

June 7. Flowers done

July 17. 8 growths.

Oct 29. A flower spathe.

To 24.

Cypripedium insigne

9 growths. 1 Flower.
1863.

Feb. 19. Flower withered; having
lasted 73 days, 10½ weeks.

20. Repotted in Peat, Leaf-m^o, Cass,
a little loam, sm. c^ocracks & Charcoal, dust
& knots. Divided into two masses.

Aug. 15. 3 Flower-sheaths ap.

26. 1 " " " "

Oct. 17. One flower opens.

21. Second flower - " -

26. Third flower - " -

Nov. 3. Fourth flower - " -

24. 1st Flo. fades.

Dec. 27, 30. 2nd & 3rd. - " -

1864.

19 growths: 3 flowers.

Jan. 18. Last flower faded.

20. Surfaced.

Feb. 24. A flower-spathe app^r.

Mar. 17. 2 more - " - " -

May 3. First flower open [Note.

15. Second - " - " -

25. Third flower.

Sept. 3. 3 flower-spathes.

Nov. 11. First flower open (of 4)

1865

growths. 4 flowers.

Jan. 30. Flowers done

Potted.

Sept. 28. 8 flower-spathes.

Oct. 21. 2 more " "

Nov. 4. First flower (of 7)

To 10.

Cypripedium venustum.

17 growths. 5 flowers in stages.

1863

Jan. 4. Flowers 2 & 3 open.

Feb. 3. Flower 1 (27. Dec) fades.

" - 4 opens.

10. " 5 " "

10. " 6-bud appears.

Ap. 26. Last flower withers.

28. Re-potted.

Aug. 20. A flower-bud, forward.

Sept. 10. And? - " - " -

25. First flower: very poor.

Oct. 25? Flower fades: the second
aborted.

1864.

21 growths: 2 fruits.

Jan. 3. 1 fruit dehiscid; I cut off

18. 4 flower buds.

20. Surfaced.

Mar. 15. 2 flowers open. (20th) 3rd. "

25. 4th - " - " -

Nov. 20. Flowers done.

Sept. 1. 2 flower buds.

Nov. 13. First flower ped (of 3)

1865

growths. 3 flowers.

Feb. 4. Flowers done.

16. Potted.

Sept 28. 4 flower-spathes.

Oct. 13. First flower open. of 1.

Nov. 18. Flowers done.

To 15.

Dendrobium densiflorum.

5 leafless; 3 leaved B.

1863

Feb. 4. Re-potted.

14. " " " "

17. A growth-bud.

Mar. 26. All the flower buds open, 20
one flower. 7 days.

27. 2 growth-buds.

May 21. Another - " -

July 13. 3 bulbs made. 1 began
to set at rest.

1864.

2 lvs., 7 lfd Bulbs.

Jan. 14. Re-surfaced.

Feb. 29. 2 fl.-buds just swelling.

Mar. 9. 2 more " - " -

Apr. 11. First spike, 25, lo. open
15 June " " " "

May 7. Flowers done (Draw? Room
17. 1, growth-bud.

30. 2 more " -

1865

3 lvs., 7 lfd Bulbs.

Jan. 18. Potted.

Mar. 11. Fl. bud swells, on old bulb.

Apr. 21. Flowers open. (1 spike only.)

29. Flowers done.

May 30. A growth bud (feeble).

1866.

8 lvs., 4 lfd. Bulbs.

Apr. 7. A growth bud

Blocked it. (See Note)

May 16. 2 growths.

Oct. 17. Put this to F. 66.

Dendrobium moschatum.

3 leafless; 4 leaved B.

1863

Jan. 9. Charcoales & Mossed.

Mar. 17. A new growth-bud.

19. Another - " - "

31. Another - " - " -

Dec. 25. These have made fine
bulbs; the chief 33 inches long.

1864.

6 lvs., 5 lfd Bulbs.

Apr. 15. A growth-bud

May 17. 3 more " - "

Aug. 1. Potted. (Note)

1865.

7 lvs., 7 lfd Bulbs.

May 17. 2 growth-buds.

1866.

9 lvs., 9 lfd. Bulbs.

Jan. 11. Surfaced.

Apr. 5. 2 fl.-buds, on an old bulb.

28. 5 growth buds

May 9. First spike flowers (15 in all)

16. Flowers done.

1867.

9 lvs., 10 lfd. Bulbs.

Mar. 20. A flower bud.

Apr. 30. 2 growths

May 10. Flowers. (9 in all)

16. Flowers done.

3 more growths.

28. Another - " - July 8. Another

Dendrobium nobile. 1.

10 leafless, 10 leaved B.
3 gro. buds. 7 flo. buds.

1863.

Jan. 8. Re-surfaced, with char.
coal dust & cocoa.

25. Flowers 1-2 open.

27. - " - 3, 4 "

29. - " - 5, 6 "

Feb. 6. - " - 7-14-4

7. " " 15 "

11. " 16-1

16.

Mar. 22. - - - - - 8 weeks

25. Re-potted (note).

July 12. A new growth-bud.

Nov. 25. 4 growth-buds.

Dec. 23. Flower buds appear

25. 4 more growth buds

1864.

10 lvs, 18 lfd B. 9 gro. buds, 3 fl. buds

Jan. 23. Surfaced.

Mar. 16. 3 more growth-buds.

22. 2 fruits dehiscid.

Aug. 25. Put to rest

Sept 19. Many flo. buds on old bulbs

Many growth buds.

Dec. 14. Flowers open (12 in all)

24 lvs. 13 lfd B. 15 gro. 12 flo.

Jan. 30. Potted; adding No 2 (to 12.)

Feb. 21. Flowers done.

July 4. Cut off 13 secondary growths,
well rooted, & planted them around.

Dec. 25. Many flower-buds appears.

To 16.

Dendrobium pulchellum. 1.

About 16 branched leafless B.
7 leaved B. 3 growths.

1863

Jan. 9. Re-potted. (Note,

July 9. United this, & Carter's (see
page 7) together; & planted in
a wire basket.

1864.

20 lvs. 35 lfd B. 20 growths.

Jan. 30. Flower-buds appear.

Apr. 23. 1st flower open (2 in all)

May 6. 2nd flower done.

1865

Feb. 10. Flower buds swelling.

22. Surfaced & mossed basket.

Mar. 28. Many growths.

May 1. 1st flower open (2 in all)

15. 2nd flo. done.

1866.

Jan. 18. Surfaced.

Feb. 27. Sev. buds swell.

May 11. Removed to a bare board.

1867

Jan. 16. Re-boarded.

Mar. 14. 6 growths

Goodyera discolor.

7 Crowns. 2 flo. buds opening

1863.

Jan. 31. First flower.

Mar. 9.

Re-potted. Many growths
under, & above ground.

1864

About 15 plants.

Mar. 3. Leaf? old pot Spk & Co.

Potted some bulbs in same.

Thrown away.

Miltonia spectabilis.

2 leafless, 4 leafed B.

4 strong growths.

1863.

Mar. 6. A new growth-bud (dormant)

July 15. 4 good bulbs made.

I began to dry it off.

Sept. 16. The new growths swell.

I again moistened it; &
cut rhizome in two, in middle

Nov. 26. 7 strong growths.

Dec. 31. Re-potted.

1864.

2 lvs 6 lfd B. 7 str. growths

Feb. 15. A back-break.

Aug. 12. First flower (of 4)

18. A back growth.

Oct. 8. Flowering done.

25. 15 new growths.

Dec. 5. Re-potted.

1865.

3 lvs. 13 lfd B. 17 growths.

Jan. 19. Removed to a Seed-pan.

June 27. A flower spike.

Aug. 25. One flower (very poor)

Oct. 1. 6 new growths.

1866.

2 lvs. 11 lfd B. 7 growths

Jan. 6. Surfaced.

May 10. A flower bud.

Aug. 16. Flower open (good)

Sept. 30. Flower done.

Oct. 1. 4 growths. Shifted.

To 24.

Odontoglossum grande.

3 leafless; 1 leaved B.

1863

Jan. 13. Re-potted.
Mar. 11. A minute growth-bud.

Apr. 3. A growth-bud.
Nov. 30. 2 bulbs perfected

1864.

2 lvs. 2 lfd B.
Jan. 19. Re-potted.
May 17. 4, no bud percept.

1865

3 lvs. 2 lfd Bulbs.
Jan. 10. Potted. Uniting to it
spec. bot in June 64., now consisting
of 14 lvs. 12 lfd B. 2 growths.
Feb. 10. A new growth.
Mar. 21. 4 growths.
June 22. 3 - " -

1866.

8 lvs. 15 lfd. Bulbs.
Apr. 9. 3 growths.

1867.

6 lvs. 15 lfd. Bulbs.
Mar. 7. Shifted.
May 21. 6 growths.

Oncidium flexuosum.

3 leaved Bulbs.

1 large panicle; buds = 2

1863

Jan. 10. 3 flowers.
Feb. 10

March 2. A new growth-bud.

2 strong growths.

Re-potted. (Note.

Aug. 19. 2 bulbs made.

Sept. 11

1864.

3 lvs. 2 lfd B. 2 fl. pan. in bud
Jan. '3. The flower buds wither.

13. Potted it: - adding a piece
with 2 leaved bulbs for Jeffries
Mar. 31. 4 fls. shoot from the latter: -
the original (Jeffries's) is dead.

May 21. First flowers open;
July 20. Flowers done.
Aug. 11. A strong growth.

1865

3 leaved Bulbs (immature)
Jan. 16. Potted (shades, sides, & sides)
May 26. A new growth.

1866.

1 lvs. 1 lfd. Bulbs.
Feb. 9. A growth.
Apr. 2. Surpassed.

13. To a cork block.
June 20. Bulb made, for new growth.
Aug. 22. A flower spike.
Oct. 6. A new growth.

To 24.

Oncidium papilio.

3 leafless B. Flo. stalk dead.
a growth dead & rotten.

1863

Jan. 20. Charcoaled & Mossed on
a new block of Cork.

Feb. 27. A minute growth-bud.

Mar. 18. 2 more minute buds.

Apr. 19. 1 more - " - " -

July 21. 2 small bulbs being made
I began to dry off.

Dec. 8. A new growth.

25. Another - " -

1864.

2 lfd B. (small) 2 growths

1865

4 lfd 1 Bulbs (all small)

Feb. (?) A strong growth.

Apr. 28. A new growth. (Mossed if.)

1866.

6 lfd. Bulbs. 1 growth.

May 4. 2 growths.

July 24. United this to *Onc. pap.* 36.
in a Wall-Pot.

29. Done flowering.

Sept. 14. 1st flower open. 22. Done.

Oct. 8. A new flower-spike pushing.

1867.

Slid. 24 lfd. B. 3 grs. 1 new fl. st.

Jan. 26. Surfaced with sphagnum.

Apr. 16. A growth. May 6. Flower.

7. 2 more growths.

May 14. Flowers done.

25. 2nd flower June 5. Done.

To 19.

Phajus Tankervilleae.

9 leafless, 5-leaved B.
several thin buds. (Dormant).

1863

Jan. 30. Re-potted, in a rich
compost of Lo. lf. Dg. Ch. & Co.

Divided the rhizome into 3, &
picked out the old peat from the
many long & massive roots.

Feb. 20. A strong growth-bud.

Mar 12. 2 more " - " -

28. 2 more - " - " -

Apr. 17. 1 more " - " -

Sept. 1.

26. Re-surfaced, and
plunged in heat.

1864.

15 lfos. 4 lfd. B. 3 gr. 2 fl. sh.

Mar. 7. Re-surfaced.

31. 5 new buds.

Nov. 6. After rest, started in H.H. for flo.

1865.

? lss. 5 lfd 1 Bulbs

Jan. 7. Re-potted. (Note)

Feb. 26. A flower (?) bud.

Mar. 27. Several growths.

Nov. 21. 2 shoots appear.

1866.

? lss. 5 lfd. B. 6 growths.

Jan. 8. Surfaced.

Oct. 24. A flower (?) bud

1867

? lss. 2 lfd. B. 4 growths.

Jan. 10. Shifted.

To 19.

insignis.
Stanhopea grandiflora

4 leafless bulbs.

growths 3 strong, 1 young.

1863

March 1. A new growth-bud.

1864

9 lvs. 8 lfd. B.

Mar 25. A small growth.

30. Surfaced.

Aug. 29. To a wire basket.

1865.

10 lvs. 9 lfd B. 2 str. growths.

Feb. 9. A growth.

June 8. A flower shoot; 3/4 gro.

July 27. 2 lovely flowers; proving
it to be *S. insignis*.

1866

2 lvs. 8 lfd. B.; 3 growths.

Jan. 16. Surfaced.

Oct 31. Basketed.

1867.

8 lvs. 11 lfd. B. 1 growth.

Stanhopea insignis. 2.

4 leafless, 2 leafed 13.

1863

April 11. A growth-bud.

1864

7 lvs 4 lfd B.

Mar. 30. Surfaced.

May 6. A growth-bud.

17. Another - "

1865

7 lvs. 7 lfd. 1 bulb.

June 20. 4 growths.

1866.

4 lvs. 9 lfd. B. 3 growths.

Jan. 19. Surfaced.

Oct. 31. Basketed.

1867

6 lvs. 16 lfd. Bulbs.

Cattleya Mossiae. 2.

3 leafed B. 1 Fl. sheath.

1862

Jan. 7. Re-potted.

Mar. 17. Bud seen in [about]

Apr. 5. A strong growth.

July 20.

Sept. 27. A growth.

1864.

4 lfd B. 1 fl. sh. 1 str. growth.

May 14. 2 noble flowers open.

June 8. Flowers dropped.

Aug. 15. A strong growth.

1865.

9 leafed Bulbs (3 immature)

Jan 12. United with No. 1 (F. 2)

Cattl. Mossiae, superba.

1 leafless B. 1 Strong growth.

1863

Jan. 1st. Re-potted.

June 3. A growth-bud.

1864.

1 lfd. 2 lfd B.

Jan. 25. Surpassed.

May 17. A growth-bud.

Aug. 15. 1 strong growth.

1865.

1 lfd. 4 lfd Bulbs.

Jan. 12. United with No. 1 (F. 2)

Cattleya crispa. 2.

1 leafed B. 1 growth-bud

1863

Jan. 6. Re-potted.

Mar. 12. Bud begins to grow.

1864.

1 Gss B. 1 growth.

Jan. 23. United with No. 1. (No. 2.)

Dead. 1874.

Calanthe vestita. (from 1.

1866.

5 lvs 2 sm. lvs B. 2 fls. spikes

26. A small top-growth.

Feb. 18. A basal growth.

22. Potted in 3 small pots.

Mar. 5. Flowers done.

Apr. 4. New growths (5 in all)

May 21. Shifted 6 to 1 pot

— " — 3 small in another

July 25. A flower bud.

Oct. 6. First spike in flower.

13. A growth.

Dec. 8. Impregn? a flo. with L.v.

20. Fruit set. Flower done.

1867.

7 lvs 1 lfd B. 1 capsule.

Jan. 26. A growth. — Potted.

Feb. 15. 2 more d.

26. 3 more d.

Mar. 11. Seed suddenly scattered

June 11. Seedlings (15) are up.

July 1. Potted off 10 of these.

Sept. 14. 2 more.

Sept. 29. Flowers, 6 sp. = 85 flowers.

Peristeria elata.

2 leafless B. 1 growth-bud

1863

Jan. 5. Re-potted.

Aug. 15. A nice bulb is made, from which a new growth is pushing.

19. Re-potted.

Dec. 28. The last growth is swelling its bulb.

1864.

1 Gss 1 lfd B; and 1 nly. for med.

Mar. 6. A growth-bud.

Dec 12. This has made a small bulb; but the larger one is softening, prob. through drip, I cut away to sound, & laid charc. dust on it.

1865

3 lvs. Bulbs, 8 lvs. of 1 lvs.

Jan. 14. Potted.

May 1. Dead.

1866.

2 large lvs Bulbs. 2 strong growths.

Loose.

By exchange from J. R. injured, Eng. by 18.

Sept. 14. Potted.

1867.

2 lvs. 2 lvs. Bulbs.

April 1. A growth. 10. 2 ditto.

Zygopetalum Mackaii.

1 leafless, 1 leaved B.
1 very strong growth.

1863.

Jan. 10. Re-potted.

Mar. 28. A growth bud.

June 3. Another " "

Aug. 15.

Sept. 16-17.

Oct. 13. Cut it for back breaks.

15.

Dec. 16. 2 new growth buds.

31. Re-potted.

1864.

1 loss 3 lfd B. 2 gr. buds. 1 fruit

Feb. 19. A new growth.

Oct. 5. 2 flower shoots. 8 a grow.

Nov. 14. First flowers open. (10 in all.)

Dec. 25. Flowers done.

1865

2 lvs. 3 lfd B. 3 sh. gro.

Jan. 3. Potted.

Aug. 17. A growth.

Oct. 4. 2 m. c. B? Surface ity.

1866.

3 lvs. 6 lfd. 1 B.; 3 growths.

July 27. A growth.

Sept. 11. 2 D.

1867.

5 lvs. 6 lfd. B. 3 gro.

Aug. 8. A growth. } Oct. 16. A growth.

Nov. 1. 1 fl. spike. 29. A growth.

Dendrobium pulch. (Carter)

y. leafless, 4 leaf. w. B. ^{"Pierardii"}

2 rows in.

1863

Feb. 3. Re-potted.

July 9. United with D. p. 1.
(See page 4)

Cattleya Forbesii. (from 2.)

1865.

5 lvs. 15 lfd. B.; 1 gro. bud.

Jan. 22. Surface it.

May 23. Flower-spathe (only burst)
A growth bud.

June 17. Flower open (1 only)

July 8. Flower done.

27. A new flower spathe.

Sept. 11. A new ditto. (bis)

Oct. 6. Flowers (1). (27 July).

11. 25? (1) (11 Sept.)

Oct. 4. Flowers done.

1867

2 lvs., 36 lfd B. 1 gro. bud

Feb. 4. Shifted. 28. Ant. gro.

Apr. 27. A fl. spathe.

June 5. A growth. Ant. spathe.

27. Flowers. (5 in all)

Aug. 8. Fls. done.

Oncidium ampliatus.

1 2 leafless, 1 leafed B.

1 Strong growth.

1863

Jan. 14. Re-potted.

Apr. 30. A growth-bud.

Aug. 26. Re-potted.

Dec. 25. 2 bulbs are made.

1864.

3 lfs 2 lfd B.

Jan. 18. Re-potted.

Aug. 1. A growth-bud (shifted)

1865

3 lfs. 2 lfd. 2 growths.

Oncidium Lanceanum. 1.

3 Leaves.

1863

Jan. 14. Re-potted.

Mar. 13. A good growth-bud.

July 9. This is perfected.

A new growth-bud.

Aug. 26. Surfaced it.

Dec. 25. The July leaf perfected.

1864.

1 lfs 4 lfs 1 Bases.

Jan. 18. Re-potted.

Mar. 30. A growth-bud.

Aug. 10. This is perfected.

Sept. 6. A new growth-bud.

1865

1 lfs. 5 leaves. 1 str. growth.

Jan. 3. Potted.

Vanda teres.

14 Leaves, & termination

1863.

Jan. 5. Cut it into 3 equal pieces, & potted them round the margin of a 5 in. pot.

Feb. 28. All the pieces unbreaking.

hd. Ap. 3. Another side-bud.

Nov. 28. Repotted. (Note)

1864.

27 leaves & 3 termini.

Mar. 28. 4 more leaves are made.

Mar. 17. 2 "

July 6. Added, from Stevens' Sale

2 pieces, cont. 11 leaves + term.

2 roots above ground. 8/

1865

56 leaves. 4 termini.

Mar. 21. New leaf peeps.

Apr. 13. A flower bud.

29. Another - "

June 21. Two flowers open.

July 19. Flowers alone.

Aug. 24. Cut off two ends, & plant them round. viz. 9 leaves } + term
8 "

1866.

77 leaves & 7 termini.

Jan. 8. Surpassed

1867

103 leaves & 7 termini.

Feb. 7. Surpassed & rearranged.

Sept. 24. Bloomed.

Phajus Wallichii.

4 leafless Bulbs.

1863

Jan. 6. Re-potted.

31. A Strong Growth-bud.

Ap. 24. A growth from the other set.

1864.

3 lvs 2 yd B. 1 fl. sh.?

Jan. 20. Potted.

Mar. 25. A str. bud from old bulb

April 3. Another "

1865.

4 leafless bulbs.

Jan. 7. Re-potted. (Note)

Epidendrum ciliare.
"Cattleya citrina."

1 leafless; 3 leaved B.

2 strong growths.

1863

Jan. 21. Charcoaled & Mossed.

Mar. 13. 2 growth-buds.

Dec. 25. 2 dm. of 1 large bulbs
 made this season.

A new growth bud.

1864.

2 lvs 5 lfd B. 1 gro.-bud.

June 10. This shows strong fl. sh.

Aug. 8. First flower open; by which
 I identify the species.

Sep. 13. Flowers done.

1865.

3 lvs. 5 lfd. Bulbs.

Jan. 6. A growth-bud.

Apr. 1. Ditto (behind cut)

11. 2 more Ditto = "

29. Transferred to a Tile.

May 8. A new growth-bud.

1866.

3 lvs. 10 lfd. Bulbs.

Mar. 9. A growth.

Apr. 1. Another L.

June 27. To a board

1867.

3 lvs. 10 lfd. Bulbs.

Jan. 25. A growth. Mossed.

Mar. 9. 2 ditto July 15. 1 growth.

Dendrobium Pierardii. 1.

12 leafless, 6 leaved B.

1863

Jan. 19 Charcoaled & Re-mossed.

Mar. 13. 7 new growths.

28- 1 " "

July 31. Began rest. Several
 stout & long bulbs made.

Dec. 1. Flower buds appear

25.

1864.

20 lvs 5 lfd. B. 80 flo.-buds.

Mar. 27. Many flowers opened today;
 there are 121 in all to open.

Apr. 20. Flowering done

May 17. 9 growths.

Dec. 6 Flower buds appear.

1865

24 lvs. 7 lfd. 100 flo. buds.

March 24. First flowers (of 160, on 9 bulbs)

31. 2 growth buds.

Apr. 17. Flowers done

Dec. 26. Many flower-buds appear.

1866.

many 1 Bulbs. many flo. buds.

Feb. 23. First flowers (of 126,

Mar. 25. Flowers done.

May 2. Thinned away old stems.

1867.

26 lvs Bulbs.

Feb. 7. Many flower-buds.

Mar. 18. Flowers open (of 30)

Apr. 8. Flowers done.

June 30. Flower-buds.

Cœlia Bauerana.

1 leafless, 4 leaved B.
3 strong growths.

1863

Jan. 7. Planted in one pot, this

B

31. A Growth-bud.

Feb. 19. This last bud is dead, probably from being too wet.

Mar. 28. A new growth-bud.

June 3. 5 - " - " - " - "

26. A growth bud from "Cyn."

Nov. 24. 5 new growth-buds.

25. Repotted, separated.

1864.

13 lvs 4 lfd. B. 7 str. gro. 3 gr. buds

Feb. 24. 2 more growths.

Apr. 29. The 5 growths are showing dense flower spikes.

May 9-12. In full flower: mean.

July 4. 2 new growth-buds.

Dec. 20. Flower-shoots.

1865.

18 lvs. 7 lfd. 8 old, 9 new, growths.

Jan. 11. Surfaced.

1866.

10 lvs. 13 lfd. B. 13 gro. (1 a bud)

Apr. 9. A new growth.

Nov. 8. Several flower spikes

1867.

14 lvs. 17 lfd. B. 14 gro. 6 fl. sp.

April 11. Flowers. 30th Dow. Shifted.

Lilia ^{autumnalis.} ~~albida.~~

1 leafless; 6 leaved B.

1863

Jan. 12. Re-potted.

Apr. 30. A growth-sun.

May 9. Another - " -

Sept. 19. 2 good bulbs made.
Put to rest.

1864.

2 lvs 5 lfd B.

Jan. 14. Re-surfaced.

May 17. 2 growth-buds.

1865

2 lvs. 7 lfd Bulbs.

Jan. 10. Surfaced.

May 23. A growth-bud

June 15. Anot. - " -

Sept. 15. A flower spathe

1866.

4 lvs. 7 lfd. Bulbs.

Feb. 16. Surfaced.

June 15. 3 growths.

July 26. To a Wall-pot

Jan. 1. A flower spathe.

Dec. 2. A lovely flower.

27. Flower done.

1867

4 lvs. 9 lfd. B.; 1 flower.

Jan. 30. Shifted.

May 29. 2 growths.

Aug. 14. 2 fl. spathe.

Nov. 17. Flowers (7 in all)

Cymbidium aloifolium.

6 leafed Crowns.

3/6

1863

Jan. 12. Repotted as a

terrestrial Orchid.

Mar. 6.

which died off.

Apr. 30. 1 strong growth bud.

1 small - " - "

July 20. Another growth.

Aug. 20. 2 more - " - "

1864.

10 crowns.

Jan. 22. Surfaced.

Feb. 20. A flower - bud.

Apr. 1. First flower open.

30. Flowers done

May 10. New flower spike.

17. Flowers open. (21 in all.)

June 8. Flowers done.

Oct. 12. A flower bud.

1865.

11 crowns. 1 flo. (?) bud.

Jan. 16. Potted.

Feb. 3. A flower - bud.

Mar. 28. 2 more flo. buds

Apr. 21. First flowers. / 4 spikes in all

May 20. Flowers done

1866.

14 Crowns.

Jan. 20. Surfaced.

Mar. 28. A flower spike, (unopened)

Apr. 3. First flower (of abt. 20)

11. A flower spike.

May 16. Flowers done.

July 27. 1 gro. & 2 flo. buds.

Sept. 11. Flowers. 3 growths.

Oct. 8. Flowers done.

Dec. 14. 4 flower spikes

To 25.

9 leafless Bulbs. 1 str. Growth.
Jan. 7. United with No. 1 (p. 9)

Cypripedium insigne. (from 3.
1866.

Many crowns. 1 flower.

Jan. 2. Flowers done.

13. Potted. (say Surfaced.)

1867

Many crowns.

Jan. 26. Shifted.

Dendrobium speciosum.

13 leafless, 5 leaved B.

1863.

June 1. A growth bud

6 Another - "

Dec. 25. 2 bulbs made; one of them
very fine.

1864.

13 lss. 7 lfd B.

Jan. 20. Potted.

Mar. 16. 3 growth-buds.

Sept. 17. A very strong gro. bud.

Dec. 20. This shows flower-spathe.

1865.

12 lss. 9 lfd B. 1 fls. spathe.

Jan. 11. Potted.

Feb. 10. 2 growths

July 15. A strong growth-bud.

Sept. 22. This is a very fine bulb,
shows flower spathe.

1866.

12 lss. 10 lfd B. 1 fls. spathe

Feb. 18. A growth.

Apr. 16. A strong growth (damped)

June 15. A strong growth.

July 27. A no. "

Sept. 1. A no. "

Dec. 27. A no. "

1867.

12 lss. 11 lfd B. 1 growth.

Mar. 7. Shipped.

June 4. A flower-spathe.

25. A new growth.

July 20. A no. "

To 11.

Lycaste Skinneri. 1.

10

2 groups, 5 } leafless Bulbs.

1863

Jan. 9. Re-potted.

" 2 new growths.

Apr. 11. 1 - " "

Dec 25. 2 bulbs made.

1864.

12 lss B.

Jan. 19. Re-surfaced.

Mar. 1. A growth-bud.

17. Another - "

1865.

12 lss. 1 lfd, 10 lbs.

Jan. 10. Potted; uniting with No. 2.

Mar. 28. A growth.

1866.

9 lss Bulbs. 1 gro. (dying)

Apr. 9. A growth-bud.

Sept. 11. This I added to *Ly. aromatica*, T. 51. as it seems to be identical.

Cypripedium barbatum.

4 main stems. 12 subord. breaks
1863.

Aug. 20. Re-potted this, and
Carter's (p. 15) in same pot;
but distinguishable

1864.

26 growths.

Jan. 18. 4 flower-buds.

20. Surfacted.

Apr. 1. First flower open.

15. Fourth " "

1865.

Jan. 5. Repotted, uniting with it
Jeffries's (p. 42) & Stevens's.

Apr. 3. 3 flower spathes.

May 21. First flower (of 6)

Aug. 10. Flowers done (and bud)

1866

Jan. 13. Potted.

Mar. 5. A flower bud.

Apr. 19. 1 flower open (no more)

June 1. Flower done.

Dec. 26. 2 flower spathes.

1867

Jan. 24. First flower open (of 2)

June 4. Flowers done.

Nov. 11. 2 flower buds.

Cymbidium giganteum.

3 leafless, 1 leaved 1 S.

1863.

Jan. 15. Repotted; terrestrial

Mar. 6. 1 strong growth.

Aug. 20. 1 growth.

Sept. 1. A flower

Oct. 4. A spike

Nov. 6. Flowering done.

25. A growth.

1864.

3 lvs 2 lfs B. 1 gro. 1 prod.

Jan. 22. 1 new growth.

Potted.

Nov. 3. A flower shoot.

1865.

4 lvs. 3 lfs. 1 gro. 1 prod.

Jan. 14. Potted.

May 1. A new growth.

1866.

3 lvs. 4 lfs. B.; 1 str. growth.

Mar. 24. 2 new growths.

Nov. 10. 2 " - 2 "

Dec. 12. Shifted. See Note)

1867.

9 lfs B. 3 growths.

April 29. A growth { June 20. a shot

July 26. 3 buds.

Cattleya Loddigesii.

2 leafless, 7 leafed ss.

4 of these only 1 inch long.

trial 1863.

Jan. 10. ?) Re-potted.

Mar. 11. 2 minute growth-buds.

13. 1 " " " "

June 3. 2 more - " " " "

10. The 3 shoots of March have made bulbs, & each now is

Aug. 20. These were abortive. but about the same time, each made a growth, wh. is now a bulb

Sept. 19. Put to rest.

1864.

3 lss. 12 lfd. B.

Jan. 18. Potted.

Mar. 30. 4 growth-buds.

May 17. and " " "

June 9. 2 flower-sheaths. (2 more

Aug. 25. First & 2^d fls. (of 7).

Oct. 8. Flowering done.

1865.

3 lss. 16 lfd. 1 bulb.

Jan. 17. Potted.

Apr. 26. 6 growth-buds.

June 24. A flower spathe.

Aug. 27. Flowers. 6 or 4 spikes.

Oct. 2. Flowers done.

To 17.

Cattleya Mossia. a.

4 leafed B. 1 strong growth.

1863

Jan. 10. Repotted.

May 25. Another growth.

Dec. 25. 2 bulbs made; small.

1864.

2 lss. 4 lfd. B.

Jan. 19. Re-potted.

Apr. 5. A growth-bud.

1865

4 lss. 3 lfd. 1 bulb.

Jan. 12. United with N. 1. (F. 2.

Dendrobium speciosum. ^{from} 10.

1867

Sept. 23. A growth.

Oct. 17. And - "

Calanthe verutrifolia.

8 leafless; 1 leafed 13.

2 strong leaf-crowns.

1863

Apr. 2. A strong growth

11. Another - " - and
ward flower-shoot.

[This died off]

June 19. Cut off, but left, the
2 back bulbs.

July 25. A growth from one of these

1864

4 lss 4 lfd B.

Jan. 25. Potted.

Feb. 21. 2 flower-spikes.

Mar. 15. Another ditto.

May 1. Another ditto.

11. First flower open.

July 15. Flo. very shabby; cut down
2 strong growths

Aug. 15. 1 - " - " -

1865.

7 lss. 2 lfd. B. 2 buds.

Jan. 19. Potted.

Feb. 28. Flower shoots.

Mar. 28. 2 growth buds.

1866.

8 lss. 3 lfd. Bulbs

Jan. 6. 2 flo. buds. Feb. 10. Another

Potted.

Feb. 14. A growth. (Mar. 6. A flo. bud.)

Mar. 24. 2 new growths.

28. Flowers (3 spikes,

May 31. Cut away flowers (for aphides)

June 29. Surface dry

To 25.

Dendrobium nobile. 2.

8 leafless, 1 leafed 13.

1 growth-bud.

1863.

Jan. 5. Re-potted.

Feb. 14. 1 new growth-bud.

Dec. 25. 2 bulbs made.
A growth bud.

1864.

4 lss 2 lfd B. 1 gro-bud.

Mar. 1. Another growth-bud.

Apr. 6. Re-potted.

Aug. 5. A new growth.

Oct. 25. Flower buds.

1865.

6 lss. 4 lfd. B. 2 gro. 2 fl. buds.

Jan. 30. United to No. 7. (p. 4).

1867.

16 lfd Bulbs. taken last year
from No. 7. (p. 16).

Feb. 19. Shifted.

July 8. 14 new bulbs are made.

Lycaste Skinneri. 2.

9 leafless Bulbs.

1866

Jan. 9. Re-potted.

Feb. 14. 3 growth-buds.

Dec 25. bulbs made.

1864.

8 lss B.

Jan. 19. Re-surfaced.

Mar. 17. A minute growth-bud.

June 11. 2 more - " " "

1865

4 lss. 2 lfs. B. (very small.)

Jan. 10. United to No. 1. (p. 10)

Maxillaria Harrisonia.

12

14 leafless, 4 leafed B.

1 strong growth.

1863

Jan. 8. Re-basketed.

Feb. 14. ~~A growth bud.~~

Apr. 4.

5. et growth bud.

19.

May 22. Another growth.

June 4. Another - " -

7. Another - " -

Dec. 25. 8 bulbs made.

1864.

15 lss 11 lfs B.

Jan. 15. Potted it.

24. ~~Agrowth~~ bud. (flower-

Feb. 14. Another flo. bud.

Mar. 10. Another flo. bud

30. 2 flowers open (7 in all)

Apr. 30. Last flower done

4 growth buds.

May 17. 2 more - " -

1865.

14 lss. 15 lfs. B. (11 in all)

Jan. 16. Potted.

Feb. 9. A flo. bud.

16. 2 more - " -

Apr. 21. 3 flo. open (7 in all)

May 3. A growth.

May 11. Flowers done.

June 20. 6 new growths.

To 17.

5 leafless, 4 leaved B.

1863

Jan. 12. Re-potted.

Mar. 30. 2 growth-buds.

Apr. 30. 2 growth-buds.

Sept. 13. 1 growth bud.

Dec. 25. 2 bulbs made

2 growths.

1864.

5 lvs 8 lfd B. 3 growths.

Jan. 19. Re-potted.

Mar. 31. A growth-bud.

April 16. A bud. - " - "

May 17. 5 more growths.

Sept. 17. A flower-bud peeped.

1865.

6 lvs. 13 lfd. B. 2 growths.

Jan. 5. Potted.

Apr. 15. 2 new growths.

June 1. 5 " - "

1866.

4 ? lvs. 20 lfd. B. 2 growths.

Jan. 13. Surfaced.

April 5. 2 growths: May 10. 6 0.

Sept. 22. A flower spike.

1867

1 lvs. 28 lfd. B. 1 str. gro.

Mar. 7. Shifted.

Apr. 5. A growth.

May 29. 11 more growths.

Sept. 21. A flower spike? gro.

Nov. 8. 4 fl. spikes.

5 leafless, 1 leaved B.
1 strong growth.

1863

Jan. 31. Potted it;

1 growth-bud. (dormant)

Apr. 30. 1 growth-bud.

1864.

3 lvs 4 lfd B.

Feb. 8. Surfaced.

May 3. 2 growth-buds.

1865

4 lvs. 3 lfd. B. 2 str. growths.

Jan. 12. Potted.

June 15. A new growth

20. 2 " "

1866.

4 lvs. 2 lfd. B. 3 str. gro.

Jan. 8. Surfaced.

May 25. 2 new growths.

1867

5 lvs. 6 lfd. B. 1 growth.

Mar. 4. A growth-bud, 1. str.

3 leaves, 2 leaves 13.

1863

Jan. 22. Re-blocked.

Jan. 5. A growth-bud.

1864.

2 lvs 2 lfs B.

Feb. 25. A growth bud.

1865.

2 lvs. 2 lfs. Bulbs.

Jan. 6. Removed from Block to Pot.

Oct. 25. Dead.

1 leaf, 1 leaf 13.

1863

Jan. 21. Charcoal of Mossed.

24 A Growth-bud.

Jan 30. The bulb being formed,

I put it to rest.

1864.

2 lvs 1 lfs B.

Mar. 13. A growth-bud.

1865.

2 lvs. 1 lfs. B.

Jan. 6. From Block to a Pot.

April 11. A growth-bud.

Stanhopea oculata.

1 leafless; 2 leaved B.

1863

Mar. 14. The new bulb is of great size.

30.

May 28. The flowers 4

joined together.

31.

July 12. A new growth.

Dec 25. Has made a noble bulb

1864.

1 lss 3 lfd B.

Mar. 30. A bud appears.

July 24. A growth-bud.

Aug. (10?) Anot. " "

1865.

3 lss. 1 lfd. B. 2 str. growths.

Mar. 20. A root-bud.

Apr. 18. A flower-bud.

June 20. Flower opens (1 only)

24. Flower done -

28. To a Tille.

July 24. A growth-bud.

1866.

2 lss. 3 lfd. 1 bulb.

June 27. To a Basket

Nov. 23. United this to St. ocul. V.
of F. 30.

1867

Stanhopea tigrina. 1.

6 leafless B. 2 str. growths.

1863

Jan. 10. Top-dressed.

May 3. A growth-bud.

1864.

4 lss 4 lfd B.

Mar. 15. 2 growths.

30. Surfaced.

1865

4 lss. 2 lfd. B. 2 growths.

Mar. 28. A strong growth.

July 16.

1866.

2 lss. 1 lfd. B. (very poor)

Dendrobium moschat. 2.

14

2 leafless B. 1 weak growth.

1 leafless; 1 leafed B.
1863.

1863

Jan. 13. Re-potted.

Mar. 3. 2 new growth-buds.

14. 2 " " " "

May 4. See Culture Note.

Mar. 30. A growth-bud.

Oct. 31. A small bulb made.

1864.

3 lvs B. minute.

1865.

2 lvs. 1 lfd. Bulbs.

Laeliopsis tilacina (from 31

1867.

4 lfd. Bulbs.

Jan. 16. at growth.

May 22. at flower-spathe.

Brasavola nodosa (from 32

1867.

57 leaves.

Feb. 27. 2 growths.

Mar. 23. United Br. cordata F. 32
with this; I well mossed it.

July 1. Flower spike appears.

31. Flowers. 3 sp. = 14 fl. in all.

Aug. 31. Done flowering.

Dendrob. moschatum. 3.

1 leafless Bulb.

" Dead.

Cypripedium venustum. from 3.
1866.

Many crowns.

Jan. 13. Potted.

Sept. 30. 3 Flower-buds.

Nov. 10. First flower (of 5)

1867

Many crowns. 5 flowers.

Jan. 7. Flowers done.

28. Shipped.

Aug. 17. 1 fl. bud. | Sept. 13. 2 ditto.

Nov. 11. Flower (2 in all).

Dendrob. nob. grandiflorum.

2 leafed Bulbs.
Pot.

1863

Jan. 6. Re-potted.

Mar. 30. A growth bud

July 9. Another - " -

Dec. 25. 2 bulbs made.

1864.

1 lvs 3 lfd B.

Mar. 31. A growth-bud.

May 17. Anot. - " -

1865

1 lvs. 6 lfd. B. 1, 10. bud

Jan. 30. Potted.

Apr. 29. Flower open (2 only)

June 8. Flowers done.

? 2 growths, & 1 stem-growth

1866.

3 lvs. 6 lfd. Bulbs.

Jan. 8. Surfaced.

Cypripedium barbatum, Carter.

$\frac{1}{3}$ 4 Crowns.

Pot.

$\frac{1}{6}$

1863

Jan. 5. Repotted.

Mar. 14. 2 growth-buds.

Aug. 20. Re-potted, uniting it
with Morgan's (p. 11).

Sophranitis grandiflora, (p. 28).

1867.

7 lvs. 6 lfd. B. 1 flower.

Jan. 7. Flower alone.

Feb. 2. Re-blocked.

Oct. 10. A flower bud.

Nov. 4. 1 Flower (all,

Dec. 24. " done.

15
Stanhopea Devoniensis.

3 leafless; 1 leafed 1 B.

1 growth.

$\frac{1}{3}$

Pot.

1863

Jan. 5. Basketed.

May 9. See Culture note.

June 9. 2 growth-buds.

12. 1 - " - " -

1864.

3 lvs. 2 lfd. B.

Jan. 28. Surfaced.

June 11. A new growth-bud.

Sept. 2. To a wire basket

17. Bult made: a new growth

1865.

3 lvs. 2 lfd. B. 1 gro. nly. mature.

June 20. 2 growths.

Nov. 1. A new growth.

1866.

5 lvs. 3 lfd. B. 1 gro. nly. mature

Jan. 16. Surfaced.

June 28. A new growth

Aug. 29. Re-basketed.

1867

6 lvs. 6 lfd. B.

Feb. 4. Re-basketed.

May 31. A growth. } June 28. An. & gro.

Sept 13. An. - " - } 29. An. " -

Oncidium altissimum.

1 leafless; 2 leaved B.

The youngest bulb has been bruised.

It is rotten to some extent; I cut away this, & laid charcoal dust on the surface. In a few days it dried near this.

Pot.

1863.

Jan. 8. Basketed.

Mar. 21. A strong growth, from the damaged Bulb.

Apr. 12. Another, from the same.

Dec. 4. From the former, now a noble bulb, a flower-stalk is pushing, & some flowers are visible.

1864.

1 los 4 lfd B. 1 fl. sh. (18 inches)

Jan. 18. Potted.

Apr. 7. First flower opens; 58 in all
2 growth-buds

May 19. Flowering done.

June 6. Another growth.

Aug. 10. Another growth.

Dec. 3. 2 Flower stalks pushing.

1865.

3 los. 4 lfd. B. 2 st. gro. 2 fl. sh.

Jan. 12. Potted.

Feb. 16. 1 new bulb, damped off.

Apr. 15. 3 new growths.

Nov. 11. A flower spike appears.

Dec. 7. Trained it on trellis of 5

To 18.

Epidendrum ovulum. K. E

15 leafless, 9 leaved B.

2 weak growths.

Pot.

1863

Jan. 5. Repotted.

Mar. 22.

Apr. 30. 5 growth-buds.

May 9. 1" - " - "

1864.

9 los 18 lfd B. (sev. of the minor)

Jan. 18. Potted with 2 in 1 pot.

Feb. 5. A fl. spathe appears.

10. Another " - "

Mar. 25. 1 growth-bud.

Apr. 2. First flower open (of 5).

4. A growth-bud.

26. Last flower drooped.

May 17. 8 more growths.

Sept 3. 2 flower spathes.

1865.

12 los. 24 lfd. B. 8 fl. sp.

Jan. 12. Potted.

Apr. 22. Flower open. (6 in all.)

May 15. Flowers done.

19. 4 growth buds.

22. Transferred to a Tile.

1866.

3 lfd. Bulbs. (dying)

July 18. To a Cork block.

Epidendrum ovulum. L.

10 leafless, 3 leafed. B.
Pot.

1863
Jan. 8. Re-potted (note)
May 12. 2 growth buds.

1864.
3 lvs 2 lfd B. (weak.)
United with preceding

Dendrobium nobile L. from 4.

1866.
Many lvs. 5 lfd Buds.
Jan. 11. Surfaced.
Apr. 6. Re-potted. (note)

1867
Many lvs. 9 lfd. B. 5 growths.
Jan. 4. Re-potted. 2 more gro.
Feb. 24. Flower buds?
July 8. 5 new growths.

5 leafless, 8 leafed B.
Pot.

1863
Jan. 7. Re-potted.
Apr. 2. 1 growth bud.
30. Another " "
June 3. 2 more " "
Aug. 26. 2 new growths.
Dec. 25. 6 bulbs made.

1864.
2 lvs 14 lfd B.
Jan. 19. Re-potted.
May 3. 1 strong growth bud.
17. 4 more " "
30. 1 " " "
July 17. A fls. spathe appears

1865.
7 lvs. 12 lfd. Buds.
Jan. 9. Potted.
May 23. 2 growth buds.
June 22. 1 - " - "

1866.
7 lvs. 8 lfd. Buds. (poor.)
July 17. 4 growths.

[Faint handwritten notes, possibly bleed-through from the reverse side]

5 leafless bulbs, 6 inches, but
not much shrivelled.

On Rio Block.

1863.

Jan. 3. Potted it, cutting away
most of the long dead roots.

Mar. 14. First start of a bud.

Apr. 30. A break from the
other portion.

Dec. 25. 1 weak bulb made.

1864.

4 lbs. 1 4th B.

Jan. 20. Potted.

Mar. 31. 2 growth-buds.

1865.

4 lbs. 1 4th B. 1 gro. nly. matured

Jan. 11. United to Para mass { 70
39

6 leafless bulbs.

Por.

2 growths.

1863

Mar. 2. A new growth.

Apr. 12. A small bud from the side
of an old bulb, half way up. [This
grows (I am) into a bulb in the
ordinary way, with a great la-
ge of descending roots.]

June 27. The first growths have
made fine bulbs, each has
a flower bud.

Nov. 10. Flowers open, 1st white
18. 1st faded.

Dec. 23.

25. 4 new bulbs made

1864.

10 lbs B. 1 gro. 3 fl. sh.

Mar. 25. 2 gro-buds; 2 fl. shoots.

Catasetum tridentatum.

3 leafless B. 1 Growth.

Pot.

1863

Apr. 12. A small lateral bud
(as in the preceding).

May 25. From the bulb now de-
veloping,

July 31.

Dec. 25. 2 bulbs made.

1864.

5 lvs B.

Mar. 25. 2 growth-buds.

Oct. 15. Flowers.

3 leafless Bulbs.

1 Growth.

Pot.

1863.

Mar. 10. Re-potted.

July 16.

Dec 25. 1 bulb made

1864.

4 lvs B.

Mar. 25. 1 growth-bud.

Cattleya Loddigesii p. II.

1866.

4 lvs. 19 lfd. Bulbs.

Jan. 20. Surfaced.

Feb. 27. 2 growth buds.

Mar. 6. 5 more D.

June 7. 2 flower spathes. (5 more.)

July 27. 6 new growths.

Sept. 3. Flower-spathes in last growths.

20. Flowers open, 1st series (18 in all)

Nov. 1. Flower open 2^d " (5 in all)

4. Flowers of 1st series done.

1867.

3 lvs. 31 lfd. B. 1 flo. 2 pods.

Jan. 19. Flowers done (from 20 Sept)

Mar 15. Shifted. Ap. 27. 5 growths

June 23. 4 flower spathes. July 1. Anos.

Aug. 8. A growth.

30. Flowers (20 in all)

Sept 24. at 6th fl. bud. Oct. 9. 1st lot done

Oct. 24. Anos. flower. Dec. 19. No. done

Maxillaria Harrisonia ^{from} 12.

1866.

17 lvs. 19 lfd. Bulbs.

Jan. 13. Surfaced.

Feb. 25. A flo. bud.

Mar. 19. Anos. d.

Apr. 11. First flowers (3 in all)

18. 3 growths. May 9. 2 d.

May 10. flowers done.

July 18. 4 more growths (9 in all)

Nov 10. A new growth.

12. Shifted; adding Lj. t. (P. 143)

1867

17 lvs. 30 lfd. Bulbs.

Jan. 30. Shifted.

Feb. 22. 4 flower spikes. (3)

Apr. 27. 11 growths in all.

May 7. Flowers. 6 in all

June 1. Impregn. with L. aromatica.

4. Done flowering.

Sept 28. 3 growths.

Cataset trident. punctatum.

14 leafless Bulbs.

8 Growths.

Pot.

1863

Mar. 14. 2 more growths

26.

Dec. 17. 2 more growths

9 bulbs made.

1864.

23 lvs B. 1 geo. 2 fl. sh.

Mar. 25. 7 growth-buds.

Sept. 9. 2 flowers. as last year.

15 leafless Bulbs.

On 1/2 in Block

2 Growths.

1863.

May 6. A new growth bud.

Aug. 15. Two bulbs made; -

Nov. 2. 6 flower buds.

12. Flowers faded.

1864.

14 lvs B.

Jan. 29. A new growth.

Mar. 25. 6 flower buds (say 3)

1865.

12 lvs. 2 lfd Bulbs. 1 fl. spike

Jan. 13. Spike of 5 fls. all open.

Feb. 2. Flowers done.

9. A growth.

Oct. 21. A flower bud.

1866.

3 lvs. 3 lfd B. 1 fl. spike.

Jan. 13. Flowers open. (6 in all)

25. Flowers done.

Mar. 31. Flowers on another spike (3 in all)

Apr. 6. Flowers done. 2 growths.

Nov. 8. 3 flower spikes.

1867.

11 lvs. 3 lfd B. 2 fls. spikes

Jan. 14. First flower. (3 in all)

Feb. 10. Flowers done. (2 spikes)

19. To a Wall-pot.

Apr. 29. A growth. Oct 25. 1 fl. spi.

5 leafless Bulbs.

Pot.

1863

Mar. 10. Re-potted.

14 2 growth-buds.

1864.

5 lvs B.

Mar. 25. 2 growth-buds.

Oncidium altissimum, fr. 16.

1866.

3 lvs. 8 lvs. B. 1 gro. 1 fl. spike.

Mar. 13. First flower of 30)

Apr. 3. 2 growths. 14. ¹ Bud. D.

17. Flowers done.

Sept. 4. Shifted (1 size less)

Nov. 9. 1 flower-spike.

27. Bud. - " - "

1867

2 lvs. 16 lvs. B. 1 gro. 2 fl. sp.

Mar. 7. Flowers. (in all 133 on 2 sp.)

Apr. 24. Flowering done.

June 5. 7 growths in all.

Nov. 9. 1 flower-spike.

2 leafless Bulbs.

1 Growth.

Pot.

1863

Mar. 10. Re-potted.

July 4. Re-potted.

20.

1864.

2 lvs B.

Mar. 25. 1 growth-bud.

Dendrob. chrysanthum, fr. 28

1866.

5 lvs. 3 lvs. B. 5 gro. 1 fl. bud?

Jan. 17. Surveilled.

1867.

2 lvs. 5 lvs. Bulbs.

Jan. 18 - To a Wall-pot.

Sept. 9. 2 fls. buds. [Aborted]

Dec. 11. United N. 2. Fr. 85.

14. Flowers of N. 2. done

4 leafless Bulbs.

Pot.

1863

Mar 14. 2 growth buds

1864.

Limatodis rosea. (from 36.

^{1867.}
9 lvs Bulbs. 1 fls. spike.

Jan. 19. Flowers done.

26. A growth. - Potted

Feb. 14. Anot. - " -; a fls. bud.

July 26. A seedling in the pot, I transferred to another pot.

Aug. 8. Fls. sp. | Sept. 4. Anot.

Nov. 26. Flowers (17 in all)

6 leafless Bulbs.

1 growth.

On Rio Block

June 24.

Dec 25. 1 bulb made.

1864.

7 lvs B.

Mar. 25. 1 growth bud.

Oncidium crispum (fr. 36

1867.

3 lvs. 3 fls. B. 2 str. growths.

Jan. 30. Shifted

Apr. 6. A new growth.

May 17. Added from Dr. Patterson's Sal Sep

6 lvs, 1 fls. B. 2 str. gro. Block 4. 1/2

Aug. 7. A fls. sp.

Dec. 17. Flowers (4 in all)

3 leafless Bulbs

On Rio Block

1863

Mar 14. 1 growth - bud.

Dec 25. 2 bulbs made

1864.

5 lvs B.

Mar. 25. 1 growth - bud.

Oncidium papilio (fr. 5.

1867

June 8. A 3rd flower } 15th Done.

July 8. A 4th d: } 22. Done.

19. A 5th d: } Aug. 14. Done.

late Sept. 12. A 6th d: } C. & G. Done.

Oct. 7. A 7th d: } C. & G. Done.

Catasetum tridentatum¹⁹

5 leafless Bulbs.

1 growth.

On Rio Block.

1863

June 4. A flower

20. Another

July 27-29. A flower

Aug. 3.

Dec 25. 1 bulb made.

1864.

6 lvs B.

Phajus Tankervillea. fr. 5.

1867

Aug. 28. A flower spike.

Nov. 20. 3 growths.

Stanhopea grandiflora. 2.

11 leafless Bulbs.

3 Growths.

On Rio Block.

1863

Jan. 22. Charcoated & Mossed.

Mar. 1. A new growth-bud

May 13. The first 3 growths have
made bulbs, & have each a growth

June 19. 2 more growths.

Sept. 6.

Nov. 14. most every flower.

18. ever done.

Dec. 28. 3 more bulbs made.

1864.

11 lbs. 9 lfd B.

Nov. 15. A strong growth.

May 17. 3 more " "

Aug. 17. Planted in Wire Basket.

Oct. 16. A flower shoot (lateral).

1865.

9 lbs. 12 lfd Bulbs.

June 20. 4 growths.

1866.

? lbs. 5 lfd. B. ; 1 growth.

Jan. 16. Surfaced.

Mar. 31. 5 new growths.

May 12. Re-basketed.

1867.

Stanhopea eburnea.

4 } leafless Bulbs

1 } growths. [Died.]

On Rio Block

1863

Jan. 21. Basketed together.

Mar. ? 2 more growths

June 19. 1 - " - "

Dec. 28. 3 bulbs made

1 growth.

1864

4 lbs 6 lfd B. 1 growth.

Jan. 14. 2 growths.

1865

4 lbs. 5 lfd. B. 4 str. growths.

Mar. 28. A new growth-bud.

Apr. 15. Another - " - "

1866.

? lbs. 5 lfd. B. 3 str. gro.

Jan. 19. Surfaced.

1867

11 lbs. 13 lfd B. 2 gro. 1 fl. bud

Feb. 21. 2 flowers shown.

25 Flowers done.

Epidendrum nocturnum

13 leafless Bulbs.

1 Growth.

Pot.

1863

Mar 14. A new growth.

Apr. 7. Another - " -

Aug. 20. " " " "

Oct. 15. " " " "

Nov. 17. " " " "

Dec. 9. Re-potted; uniting
the two following in the same
9 inch pot. Now comprising
34 old stems, & 16 new.

1864

34 old stems; 16 new.

May 17. 8 new growths.

June 9. Flower buds.

July 19. One flower opened.

Aug. 6 Flower withered

Oct. 10 Flower withered.

1865.

Nov. 28 Old stems. 1 fl. bud.

Jan. 16. Surprised.

April. Thrown away.

Epidendrum nocturnum²⁰

21 leafless, 2 leaved Bulbs.

2 Growths.

Pot.

1863

Feb. 25. Another growth

Mar. 14. Another - " -

Apr. 7. Another - " -

Aug. 20. " " " "

Epidendrum nocturnum

19 leafless, 3 leaved Bulbs.

3 growths.

Pot.

1863

April 7. 4 more growths.

June 1. It, however, and is de

24. This flower open

July 10. Flower wis

Aug. 15.

Sept. 8.

Oct. 4.

1 leafless, 3 leaved 1 Bulbs.

Pot.

1863.

June 9. One of the dormant buds
is growing.

Aug. 22. 2 more growths, weak.

Sept. 19. Re-potted.

1864.

3 lvs B. 2 growths.

1865.

4 lvs. 1 lvs. B. 1 gro.

Jan. 19. Potted.

April 11. 1 new growth.

Aug. 4. To a Tile.

1866.

? lvs. 2 lvs. B. 2 gro. nly met.

July 26. To a Cork slab.

1867.

1 lvs. 2 lvs. B. 3 str. gro.

June 22. 2 growths.

Epidendr. odoratissimum.

6 leafless, 1 leaved Bulbs

Pot.

1863

Jan. 10. A growth-bud.

Apr. 23. Flo.-sheath appears at top
of last-formed bulb.

Oct. 1. Bulb formed. Put to rest.

16.

Dec 25. A growth bud.

1864.

6 lvs 2 lfd B. 1 gro. bud.

Jan. 25. Potted.

Feb. 25. Another growth-bud.

May 15. Flower open (2 in all).

1865.

6 lvs. 3 lfd. B. 1 gro.

Jan. 5. Surfaced.

Apr. 17. A growth.

May 5. Flower-spike pushing.

June 22. Flowers open (6 in all)

July 22. Flowers done.

Aug. 4. To a Tile.

1866.

5 lvs. 4 lfd. B. (the new one large)

Feb. 8. A flower spike pushing.

Apr. 0. First flower (4 y)

18. A growth bud.

May 15. Flowers done.

1867.

5 lvs. 3 lfd. B. 1 gro.

Jan. 26. A flower-spike.

Up.

Octomeria _____ ? 21

32 leaves.

Pot.

It gradually died; & in Apr.
was thrown away.

Epidendr. odoratissimum. (Up.

1867. April 4. Flowers. (11 in all.)

c May 10. Flowers done.

June 11. A growth.

1 leafless, 2 leaved Bulbs

In woods, surrounded by
moss, in 3 in. Pot.

1863

Mar. 3. Not thriving: re-potted
it in peat & coarsa-dust & charc.
dust, in small pot.

May 7. I had thrown it out as
dead; but to-day I see a gr.-bud.

Rodriguezia secunda. (back)

1866.

4 leaved Bulbs.

Feb. 1. A growth. (3rd Eaten out.

15. Bud. 5?

Apr. 1. Another growth.

June 23. To a smaller cork.

Aug. 28. 2 flower-spikes.

Sept. 20. Flowers open - (28 in all)

Oct. 16. Flowers done

Nov. 8. A new flower-spoke

29. A growth

Dec. 1. Flower open (10 in all)

22. Flowers done.

1867.

4. Efd Bulbs. 1 growth.

Sept. 22. 2 flo. buds.

Oct. 17. Flowers. ¹⁴/₁₂ } 26 in all.

Nov. 2. Flo. done.

Dec. 11. A growth.

31. done "

Rodriguezia secunda.

1 leafless, 8 leaved Bulbs.

7 flower spikes

18

Block

1863

Jan. 22. Removed to block of Cork
with charcoal & moss.

Feb. 3. 2 Growth. buds.

4. No. 2 flowers.

5. Last flo. (11) faded.

(From Dec. 8. 1862)

19. 1. 2. flo.

Mar. 1 2 more growth-buds.

Apr. 2. 1 " " " "

Aug. 20. 5 bulbs are now made.

1 flo. shoot. 1 bud.

Sept. 20 5 more " "

Nov. 14. First flowers open: viz.
6 spikes, cont. 105 flowers.

Dec. 14. These now done; but 2 more
spikes forming.

1864.

2 lvs of B.

Feb. 10. In flower again: 1 spear.

Mar. 18. Flowering done.

Apr. 10. A strong growth-bud.

May 17. Another " "

July 30. A flower-spike appears

Oct. 31. Flowered. (1 spike of 4 f.)

Nov. 24. Flowering done.

1865.

5 lvs 13. 1 growth.

Mar. 28. A new growth.

Apr. 18. A flower-spike

May 20. Flowers open.

June 11. Flowers done.

Oct. 16. 4 flo. spikes.

Nov. 7. Flowers open 39 in all

Dec. 6 Flowers done Back.

Brassia Lanceana.

1 leafless, 1 capped 1 Bulbs
1 growth.

On Block. (Mis.)

1863.

Mar. 10. Re-blocked on Cork.

Oct. Bulb made: to rest.

Nov. 18. A new growth.

1864.

2 lss 1 lfd B. 1 gro. bud.

1865.

Sept. 30. Many new bulbs made

Oct. 20. 2 flower spikes appear.

Nov. 9. First flowers open (of 8)

28. Flowers done.

Dec. 13. To a Till.

1866.

Feb. 16. A growth. (27. 3 ditto.)

Apr. 12. 8 more L.

July 26. To a Wall pot.

Nov. 8. 5 new growths.

1867.

? Bulbs. 11 growths.

June 26. 2 fls. spikes.

July 18. Flowers (15 in all.)

Aug. 1. Flowers done.

Oct 5. 3 growths. 18. 1 Anot.

Gongora maculata

22

16 leafless 1 Bulbs
1 growth.

On Rio Block

1863

Feb. 4. 3 more growths.

May 9. One of these has formed
a bulb wh. now shows
a bud at its base.

Nov. 1. This has made a bulb.

1864.

11 lss 5 lfd B.

Feb. 12. To a Wire basket.

Mar. 27. 2 growth. buds

1 flower — " —

April 1. 1 — " —

May 14. First fl. open (27 in all)

24. Flowers done.

1865.

4 lss. 4 lfd. 1 Bulbs.

Feb. 10. 2 growths.

Mar. 27. 1 — " —

1866.

6 lss. 4 lfd. 13. 2 gro. (n. mat.)

Jan. 16. Surfaced.

Mar. 31. A new growth.

June 28. Flower shoot.

July 5. Anot. — " —

Aug. 9. First flower open ($\frac{28}{19} = 1\frac{9}{19}$)

Sept. 1. Flowers done.

7. A new fl. sp. (from old bulb)

Oct. 24. This flowers (14)

Nov. 4. Flowers done.

Dec. 7. Re-basketed.

To 25.

12 leafless, 3 leaved Bulbs
8 growths.

On Rio Block.

1863

Mar. 1. 2 more growths.

Dec. 25. 6 bulbs made.

A growth bud.

1864.

13 lvs & lfd B. 1 gro. bud.

May 17. 11 new growths.

1865.

15 lvs. 14 lfd. 1 bulb.

Mar. 28. 7 growth-buds.

9 leafless Bulbs

2 growths

On inverted Pot.

1863

Mar 1. Another growth

Aug. 21. United this with the
2 following, & potted the whole
in the usual manner, in
one pot.

1864.

12 lvs 6 lfd B. 1 gro. bud.

Jan. 21. Surfaced.

Feb. 5. Another growth-bud.

May 17. 6 growth-buds.

1865.

12 lvs. 8 lfd. B. 1 str. growth.

Jan. 6. Potted, uniting with it.

8 leafless Bulbs
2 growths.

On inverted Pot.

1863
Mar. 1. Another growth
United with preceding

Laelia purpurata (from 27)

1866.

2 lvs. 19 lfd. B. 3 str. gro.
1 gro. bud.

Jan. 16. Surfaced.

Feb. 1. A new growth.

17. Flower spathe.

24. A new growth.

Apr. 5. A back breaky.

May 24. 2 flowers open (all)

June 13. Flowers done.

23. A new growth.

Sept. 11. A " Do

Nov. 26. A flower - spathe

Dec. 27. A " " "

1867.

1 lvs. 23 lfd. B. 4 gro. 2 spathe

Feb. 5. Shifted } 28. A growth.

Apr. 27. Another growth.

June 5. Another - " -

14. Flowers (7 in all) 8. Done.

25. Anthers with pollen of *Cal. citrina*

July 8. A pod is swelling from this.

2. 3 growths } Oct. 17. 2 growths

Nov. 11. A spathe.

Dec. 30. Pod of June 25. dehiscent.

4 leafless, 2 leaved Bulbs

On Block.

1863

Mar. 5. 2 growth. buds.

Potted it.

United with 2 preceding

Laelia Perrinii (from 27)

1866.

2 lvs. 31 lfd. Bulbs.

Jan. 20. Surfaced.

Apr. 24. 5 growths. 2 more.

Aug. 6. A flower spathe.

20 5 more - "
Nov. 3 Flowers. (19 in all) 6 sp.

Dec. 5. Flowers done.

1867.

2 lvs. 36 lfd Bulbs.

Mar. 2. A growth. } Shifted.

April 3. 5 more growths.

July 13. A fl. - spathe } 30. 5 more

Oct. 15. First flower, of 15.

Nov. 23. Flowers done.

5 leafless Bulbs.

In 1 Basket.

1863

April 5. A strong growth.

1864.

3 lvs 2 lfd B.

Mar. 21. Potted.

May 1. 2 new growths.

1865.

2 lvs. 3 lfd. B. 1 str. gro.

Jan. 6. United with preceding

Aerides odoratum 1. (from Po. 1.)

1867.

Leaves 20 + 10 + 7.

Feb. 16. A flower-bud.

Mar. 9. Anot. "

May 12. Flowers. 1st sp. (32 in both)
14. & 4 leaf peep.

June 10. Flowers done. A peep.

July 5. A peep. } 20th Anot.

Aug. 12. A side growth.

Sept. 16. A peep.

13 leafless, 5 leaved 1 Bulbs.

2 growths.

In inverted Pot.

1863

May 2. Repotted in the usual way
it looks moribund.

Aug. 20. Repotted; lost lostan
in a saucer of water, in shade O

Oct. 29. Dead.

Cattleya Mossiae 1. (from 2.)

1867

5 lvs. 25 lfd. B. 2 grs. 1 fl. spa.

Feb. 4. This leaf.

June 5. 2 growths.

Oct. 17. 1 spathe.

Notylia tridaena.

8 leaved Bulbs.

1 Growth.

1863

Jan. 22. Re-blocked.

2 Growth-buds.

Mar. 14. 2 more - " - "

Oct. 15.

Dec. 1. Another flower-shoot

1864

9 Crowns. 2 fl. spikes

Jan. 31. First spike flowers.

May 17. 3 growth-buds.

Aug. 8. A flower spike

Sept 25. First flowers open.

Oncidium flexuosum (from 5.

1867.

1 lvs. 3 lpd B. 1 str. growth

Jan. 16. Re-blocked spirally

Apr. 11. A flower-spike.

May 16. Flowering. (66 in all

24. A growth June 21 Done flow.

Sept. 5. A spathe.

24

Notylia punctata.

5 leaved Bulbs.

2 flower-shoots.

1863

Mar. 5. 1 flower-shoot

14. Growth-bud.

29

Sept. 19. A flower-shoot

Nov. 12. First flower open

Dec. 10. This spike done

Miltonia spectabilis (from 4.

1867.

7 lvs. 15 lpd B.; 6 growths.

Jan. 16. A new growth.

May 10. 4 flower spikes.

July 15. Flower (of 4).

Sept. 4. 1 growth } 13. 2 Ditto.

14. Flowers done.

28. Another growth.

Oct. 18. 2 more - "

25. 1 - " - "

Nov. 11. 5 - " - " - "

6 1/2 leaves. Bulb.

1 ~~Bulb~~ shoot.

Clings by long tangled mass
of roots to the original twig,
very slender one.

Mar 14. A new growth.

Sept. 14. Potted it. (note.)

Cymbidium aloifolium fr. 10.

11 crowns. 2 gro. 4 fls. spikes.

Jan. 1. Flowers.

14. at 5th fls. spike is pushing.

Feb. 5. 1st spike is done.

23. 2nd spike flowers.

Mar. 26. This is done.

Apr. 5. Shifted.

Dec. 31. 3 1/2 lo. (?) buds.

1 leafless bulb.

1 growth.

Pot.

1863

Mar 14. A growth bud.

Calanthe veratrifolia (fr. 12)

6 lo. 6 lfd B. (3 are small)

Jan. 2. 2 flower scapes.

7. 2nd - " - 31. 1st & 2nd

Apr. 15. Flowers. 1st sp. (3 in all)
 $84 + 51 + 29 = 164$ fls.

June 21. 4 new growths.

Aug. 14. Flowers done: (4 months)

3 leafless, 6 leaved Bulbs
On Block

1863

Jan. 23. Re-blocked

Mar 14. 3 Strong Growths

Sept. 12. 3 Flo-spikelets,

12 Oct. 17.

Nov. 6. Flowering done.

Notylia punctata. 25

1 leafless, 2 leaved Bulbs.

2 Flower-shoots

Pot.

1863

Jan. 6. Re-potted.

Feb. 4. 1 growth-bud.

Mar. 24.

Gongora macul. fusca (fr. 22.

1867.

11 lvs. 5 lvs. B. 2 yrs.

June 5. A flower spike.

July 7. Flower. (26 in all.) 26 fl.

10. 4 more fl. spikes.

Aug. 14. 2nd spike flowers. (23 fl.

14. 3rd " " " (25 " "

16. 4th " " " (29 " "

17. 5th " " " (20 " "

27. Flowers done.

Isochilus prolifer. 1.

Many leafless & Bulbs.
Many leafed &

On inverted. Pot.

1863

Mar. 14. Buds from many joints

Apr. 29. Flowered. The
blossom small & inconspic.

May 20. Inserted this & the
following, in the Moss wall

Isochilus prolifer. 2.

6 leafless, 5 leafed B.

1863. On Block

Mar. 5. Potted it.

Apr. 29.

Camaridium vestitum.

8 leafless, 1 leaved Bulbs.

3 imbricate Growths.

1863. On Block.

Mar. 2. United to 48, (p. 27)

Camaridium vestitum.²⁶

22 leafless Bulbs.

5 Growths

On inverted Pot.

1863.

Aug. 21. Potted it in the ordinary manner.

Camaridium vestitum.

13 leafless Bulbs
7 Growths.

1863 On Block.

Mar. 2. United this with No. 45, on
a cork-block, with charcoal &
living moss.

Dec. 4. Flowers: minute &
insignificant.

Phajus albus.

5 leafless Stems.

Post.

From Hugh Low, 25 Feb. 1863.

Feb. 26. Repotted; pulling apart
the bulbs, to stand singly. (Note.

Mar. 28. A growth-bud, one from

29. another - " - - - each of

Apr. 4. 2 more - " - - - 6 bulbs.

12. 2 more - " - - -

May. 15. 3

20. 5

Sept. 16. Flowering done. The seed
pod is formed spontaneously.

I put it to rest.

1864.

6 less Bulbs.

Jan. 21. Potted.

Feb. 22. 3 new growths. (Vide Note.

Mar. 17. 3 more (long ago).

Aug. 18. Flower spikes forming

1865.

6 less Bulbs.

Mar. 6 First growths.

1866.

1 less Bulb. (only dead.)

Jan. 11. Potted (in 3 in. pot)

Mar. 29. 1 growth.

June 28. Dead.

Lælia purpurata.

2 leafless : 3. leaved Bulbs.
~~8~~ ~~xxxx~~ ~~xxxxxx~~. 1 Growth.

Pot.

Low & 3. 25. Feb. 1863.

Feb. 26. Repotted. The roots
 very long, thick, & succulent.

May 25. A strong growth

June 16. Another - " -

Dec. 25. 2 bulbs formed.

1864.

2 lvs. 6 lfd. B.

Jan. 23. Surfaced.

Feb. 25. 2 growth-buds.

Apr. 7. Another - " -

Aug. 18. Flower spathe appears

Sept. 13. A new growth-bud.

Oct. 6. Another - " - " -

1865

2 lvs. 7 lfd. B. 3 gro. 1 ft. sp.

Jan. 18. Potted.

Apr. 11. Added a plant from Stevens
 comprising 6 lfd B. 1 str. gro. ¹⁴

29. Fls. spathe in new bulb.

May 27. Old spathe is swelling.

June 20. Flowers (3) pierced old spathe
 & lying there 12 inch in 12 hours.

25. Flower (3) of old spathe open

July 1. " (2) of new spathe open.

25. Flowers done.

27. it growth buds

Aug. 3. et not. - " -

Oct. 31. et not. - " -

Dec. 5. et not. - " - " -

25. Cut rhizome in 2 places.

To 23.

Lælia Perrinii.

27

1 leafless : 4. leaved 1 Bulbs.

~~xxxxxx~~ ~~xxxxxx~~.

3 Flower Pot. Sheaths.

Low & 6. Feb. 25. 1863.

Feb. 26. Repotted. (Note.)

Mar. 25. 2 growth-buds.

Apr. 3. Another - " -

24. Another - " -

July 12.

show the flower-sheath.

Oct. 22. Two lovely flowers open.

25. Two more (7 spikes) - " -

Nov. 5. One more - " -

First lot faded.

24. Last flower faded.

4 bulbs are made.

1864.

1 lvs 8 lfd B.

Jan. 23. Surfaced.

Mar. 31. 4 growth-buds.

July 4. Fls. spathe in ones.

10. do. in all.

Oct. 27. 10 flowers out (14 in all)

Nov. 18. Flowers done.

1865.

1 lvs. 12 lfd. 1 Bulb.

Jan. 16. Potted; uniting Stevens's
 comp. 1 lvs. 13 lfd. Bulbs. 4/6

Mar. 31. A growth.

Apr. 26. 3 more d.

May 9. 2 more - " -

June 20. 1 " - " -

Aug. 5. First flower spathe (of 7)

Oct. 30. First flower open - (of 17)

Nov. 22. Flowers done.

To 23.

Cyrtopodium Andersoni.

3 leafless B. 1 Strong Growth.
Pot.

H. Low 16°. Feb. 25. 1863.

Feb. 26. Repotted. (Note.)

July 20. Knobe bulb made:
began to dry it off;

1864

3 lvs Bulbs.

Jan. 21. Potted.

Feb. 15. A flower bud (red); &
also a growth-bud (white).

1865.

2 lvs. 1 fl. 1 bulb.

Jan 13. Potted.

Mar 28. A growth-bud.

Apr. 17. 2 more " "

1866.

2 lvs. 1 fl. 1 Bulbs.

Jan. 5. Potted. - A strong growth.

Dec. 12. 2 new growths.

Shifted.

1867.

4 lvs. Bulbs. 1 growth.

Nov. 25. 2 growths.

Dec. 7. Shifted.

Epidendrum aurantiacum.

1 leafless : 8 leafed 1 Bulbs.

2 Flower sheaths.

Pot.

H. Low 16° Feb. 25. 1863.

Feb. 26. Repotted. (Note.)

Mar. 25. Two

June 1. 2 growth-buds.

Oct. 21. Three stems are formed.

1864

1 lvs. 11 lvs. B. 2 pods.

Jan. 15. Re-potted this, with

N^o 2 (p. 29) in one pot.

Feb. 18. a growth from N^o 2.

June 11. 3 " (N^o 1) 1 " (N^o 2)

Oct. 20. 3 flower spathes.

1865.

7 lvs. 7 fls. B. 2 lvs. fls.

Jan. 9. Re-potted.

June 22. 2 growth buds.

Sept. 28. Flower spathes

1866

4 lvs. 6 fls. Bulbs. (See note)

Feb. 5. Dead.

Dendrobium chrysanthum.

3 leafless: 1 leaved Bulbs
2 Strong Growths.

Pot.

14. on + ° Feb. 25. 1863.

Feb. 26. Repotted. (Note.)

Aug. 22. Began rest.

Sept. 1.

19. 3 growth buds.

Oct. 9

14.

21 }
26 }

1864

5 lvs. Bulbs. 2 str. growths

Jan. 23. Sur faced.

Aug. 16. Ho. buds swell, on both sides.

Sept. 24. 2 growths.

Oct. 16. Flowers open. 43 } 68 - all.

Nov. 1 Flowers done

Dec. 7. Basketed it.

1865.

7 lvs. 1 Bulb. 2 str. growths.

Apr. These growths, scalded, I cut away, one wholly, one partially.

Sev. new strong buds push.

May 2. Mossed & wired.

Nov. 16. Several new growths.

Dec. 27. 8 flowers? and

To 18.

Sophronitis grandiflora. ²⁸

4 leafless: 4 leaved Bulbs.

Block.

14. Low + ° Feb. 25. 1863.

March 2. Re-blocked, with charcoal-dust & moss, on Cork.

June 1. A growth-bud.

8. 2nd more — " —

Oct. 11. From these shoots, now maturing to bulbs, 3 flower. Sheer the spec. but all aborted.

1864.

3 lvs. 7 lfd. Bulbs.

Dec. 3. 2 good bulbs made; one has protruded flower bud. 6th Anot

17. First flower. 22nd Second.

1865

6 lvs. 7 lfd. Bulbs. 2 flowers.

Jan. 23. Flowers done.

June 12. A growth bud.

Nov. 27. A flower-bud appears.

Dec. 4. Anot do — "

1866.

6 lvs. 5 lfd. 2 gro. 2 fl. buds

Jan. 8. 1st flower open. (The other died.)

Feb. 4. Flower done.

May 10. A growth. 30. Anot

July 31. A back break.

Aug. 17. A flower-bud appears.

Oct. 2. A flower. (1)

30. Flower done.

Nov. 13. A flower-bud.

Dec. 11. Flower open. (1)

To 15.

Ionopsis paniculata.

5 leaved Bulbs.

1 Block.

H. Low & Co. 25 Feb. 1863.

Mar. 2. Re-blocked, with moss
& charc. dust on cork.

April 6. Flowers done.

10. A growth-bud.

16-20. 5 Buds are pushing
from the centres.

21. Another growth.

July 2. ~~2 more than pushing~~

Sept. 19.

Dec. 14.

2 growths pushing.

1864.

5 lfd Bulbs. 2 growths

June 25. Flower spike -

Oct. 20. Inflo. scarcely expanded

Nov. 10 All died off.

1865

3 lfd Bulbs.

Jan. 11. Mossed & wired.

June 17. A growth.

Aug. 3. A flower-spike.

1866.

4 lfd Bulbs. (Dying).

Sept. 17. To a new block.

Epidendr. aurantiacum 2.

3 leafless. 4 leaved Bulbs.

2 seed pods maturing.

Pot.

H. Low & Co. 25 April, 1863. To re-
place N.T., wh. is the worthless var!

Sept. 10. 2 weak growths.

1864

3 lfs 4 lfd B. 2 gro. 2 pods.

United with N.T. p. 28.

2 Cyrtorchilum maculatum.

3 lvs. 1 lfd. B. 1 growth.

Pot.

Veitch & Son. 28 April 1863.

Nov. 25. Bulb perished.

1864.

3 lvs 2 lfd Bulbs.

Jan. 25. Potted.

Apr. 20. 1 growth-bud.

1865.

3 lvs. 1 lfd. B. 1 sh. gro.

Jan. 9. Potted.

1866.

3 lvs. 2 lfd. Bulbs (healthy)

Feb. 16. Surfaced.

May 7. A flower like.

Nov. 30. A growth.

Dec. 10. Shipped.

1867.

3 lvs. 1 lfd. B. 1 gro.

Oncidium sphacelatum.²⁹

1 lvs. 3 lfd. B. 1 growth.

Pot.

Veitch & Son. 28 April 1863.

May 12. A new growth-bud.

1864.

2 lvs 2 lfd B. 2 very str. gro.

Jan. 22. Potted.

July 10. A new growth.

Aug. 15. 2 " - "

1865.

1 lvs. 4 lfd. B. 2 str. gro.

Jan. 10. Potted, adding a specimen
bought Aug. 4/65; now comprising

5 lvs. 1 lfd B. 2 growths.

Apr. 26. A new growth.

June 22. 2 - " - " - "

1866.

7 lvs. 5 lfd. B. 9 growths.

Feb. 5. Surfaced.

May 28. 3 new growths.

July 27. A new growth.

1867.

7 lvs. 16 lfd. B. 3 growths.

Jan. 17. Shipped.

June 5. 3 more growths.

Ruckeri
Stanhopea "venusta."

4 leafless 4 leafed 1 Bulbs.

Pot:

Veitch & Son. 28 April 1863.

Basketed immediately.

June 19. 2 growths.

1864

3 lss 4 lfd B. 2 str. gro.

May 17. 1 growth bud.

June 2. 1 flower - in; stem white.

July 22. Anot. " —

Aug. 4. 6 noble flowers open.

7. Flowers withered.

1865

8 lss. 4 lfd. B. 3 str. gro.

May 27. 1 flower shoot.

July 16. 6 noble flowers open.

22. Flowers withered.

1866.

? lss. 8 lfd. B. 2 very str. gro.

Jan. 18. Surfacted.

May 17. 1 flower bud. - Anot.

July 18. First flowers open (10 in all)

22. Flowers done. (2nd sp. formed the mature flowers, but not opened)

1867

8 lss. 14 lfd. B. 3 growths

Feb. 5. Re-basketed.

May 29. 1 flower bud (July 12. Flo. 7)

July 19. Flowers done.

Stanhopea oculata, Veitchii.

7 leafless. 6 leafed Bulbs.

Rod Basket.

Veitch & Son. 28 April 1863.

Sept. 6. Flower shoot fine buds.

Oct. 11. One flower open; buds well advanced.

Dec. 25. 1 bulb perfected 1 growth bud.

1864.

9 lss 5 lfd B. 1 gro. bud.

July 3. Flower shoot protrudes.

Aug. 16. 6 fine flowers open.

Sept. 3. Anot. flower shoot

Oct. 14. 4 flowers open.

20. Flowers done.

1865.

11 lss. 4 lfd. Bulbs.

Feb. 9. A growth.

16. 2 more - 1 -

1866.

10 lss. 9 lfd. 2 growths

June 23. Flower spike protrudes.

Aug. 21. 5 flowers open.

25. Flowers done.

Sept. 5. A new flower spike.

Oct. 8. Flowers open (4).

16. Flowers done.

Nov. 23. To copper basket; uniting it St. oc. from F. 14.

1867

18 lss. 12 lfd. B. 4 growths.

July 22. 1 flower spike (Aug. 29. Flowers)

Aug. 23. Anot. " " (Sept 7. F. done)

Oct. 2. Flowers, 5. } 7. done.

Trichopilia tortilis, 1.

15 leafless 4 leaved Bulbs.

Pot.

Veitch & Son. 28 April 1863.

May 20? Two growth-buds

Dec. 25. 2 bulbs made
2 growths.

1864.

18 lvs 3 lfd. 2 growths.

Jan. 22. Potted.

Apr 15. A new growth.

May 17. 3 - " - "

Aug. 15. 3 strong - "

Dec. 21. A fls. bud:

1865.

17 lvs. 11 lfd. B. 2 fl. buds.

Jan. 9. Potted.

Mar. 2-4. First flower opens (74).

29. Last flower done.

Apr. 14. A growth-bud.

June 22. 2 - " - "

1866.

19 lvs. 9 lfd. B. 4 gro. (uly. mat.)

May 26. 2 new growths.

Aug. 12. A flower-bud.

24. Flower open. 1st bud.

Oct. 2. A new flower-bud.

20. Flower open.

29. A new growth.

Nov. 4. Flower open.

Dec. 9. Flower done.

1867.

14 lvs. 11 lfd. B. 1 growth.

Jan. 17. To a new-pot.

To 46.

30

4 leafless 1 leaved 1 Bulbs.
Loose.

From Jamaica. May 2. 1863.

May 4. Potted on Cork.

June 19. A growth-bud.

1864.

5 lvs Bulbs + growth.

Aug. 19. Found dead

Bletia Shepherdii. f. 32.

June 3. Seed pod dehiscent

b. Sowed seed in same pot.

1867.

14 lvs. 9 lfd Bulbs.

April 27. 3 growths.

30. Shifted.

May 13. 7 more growths.

June 20. 3 more - " -

^{Metzger}
Oncidium Lanceanum, 2.

5 leaf-bases. 4 growths (buried)
Loose.

From Jamaica. May 2. 1863

Planted in Kioatle on Cork.

31. Two growth-buds.
July 21. Another growth.

1864.

5 lvs Bulbs 3 growths

1865

3 lvs. 7 lfd. B. 1 growth.

Broughtonia sang. ^{from next page.}

¹⁸⁶⁶ May 12. Flowers done.

Aug. 11. To a small pot.

1867.

2 lvs. 5 lfd. Bulbs. (dying)

Jan. 1 To a bare board.

19. Planted.

Mar. 9. A growth July 11. Another.

Oncidium Lanceanum 3. B

11 leaf-bases: 12 leaves.
10 growths.

From Jamaica. May 16. 1863.

May 18. Planted on Cork.

1864

12 lvs 24 lfd B. (small)
April 12. Note.

May 2. Potted.

17. 7 new growth-buds.

1865

About 36 leaves.

Jan. 19. Surfaced.

Apr. 18. 6 growths.

1866.

Nearly dead.

April 10. Turned out.

3. Broughtonia sanguinea

40 leafless, 18 leafd / Bulbs

Jamaica. 16 May 1863.

May 18. Blocked on Cork.

June 12. A growth-bud.

20. 2 more "

30. 2 more - " -

July 9. 1 more - " -

16. 2 more - " -

1864.

26 lbs 13 lfd B.

Mar. 9. Re-fastened on same block.

26. 3 growth-buds.

Apr. 15. A flower shoot.

30. Another " - " -

May 17. 2 growth-buds.

30. First flower opens.

July 25. Flowers done (to Aug 26).

Aug. 29. New flower-spathe.

Sept. 16. The old spike in flower again.

Oct. 21. " done flo.

1865.

19 lbs. 17 lfd. B. 3 growths.

Feb. 8. Mossed & trimmed.

Mar. 28. 4 flower spikes

A growth-bud.

Apr. 17. 3 growth-buds.

May 6. First flowers open.

Aug. 2. Flowering done.

1866.

11 lbs. 16 lfd. Bulbs.

Mar. (1st?) A flower spike.

26. First flower (of 7,

Potted

Apr. 23. A growth-bud.

Backe.

Laliopsis lilacina.

31

7 leafless. 15 leafd B.

2 growths. (aborted)

(4 clumps).

Jamaica. 16 May 1863.

May 18. Blocked on Cork.

June 12. 2 growth-buds.

19. 1 - " - " -

July 2. 2 " - " -

Sept. 14. " - " -

1864.

14 lbs 13 lfd B. 1 fl. sh.

Mar. 15. 2 strong growths.

Apr. 13. First flower open.

May 7. 15 fl. now open together.

17. A new growth bud.

30. Another " - " -

June 4. 2 flower sheaths appear

8. Flowers (13 Apr.) done.

1865.

17 lbs. 11 lfd. B. 2 fl. sp.

April 7. First flower (of 3)

18. 3 growths

May 11. Flowers done.

July 16. A new fl. spathe.

Sept. 28. Another - " -

Dec. 13. First flower (of 10)

1866.

8 lbs. 13 lfd. B. 1 fl. spike

Jan. 27. Flowers done.

Apr. 13. A growth bud.

July 30. A flower-spathe (aborted).

Sept. 15. Re-blocked.

To 14.

Oncidium cebolleta.
Brasavola

2 leaves.

Jamaica. 16 May 1863.
May 18. Blocked on Cork.
June 1. A growth bud
19. Another " -

1864.

4 leaves.

1865

6 leaves.

Feb. 9. Flower shoot.
20. Re-blocked.
May 4. A growth.
July 1. Flower spike.

1866

7 leaves. 1 flo. bud.
Feb. 16. A growth bud?
Nov. 30. A flo. spike

1867.

8 leaves. 1 flo. sp.
Jan. 3. Re-blocked & moved.
21. Another flower spike.
Feb. 17. First flower (prov. the species)
Apr. 13. Flowers done.
May 4. A growth. 9th Anst.

Bletia Shepherdii.

32

10 lfs. (2 minute) 1 growth.
3 ripening seed-pods.

Jamaica. 16 May 1863.
May 18. Potted in compost.
June 3. A new growth-bud.
7. 2 " " "
17. 2 " " " "
July 20. 1 " " " "
25. 1 " " " "
Aug. 20. 1 " " " "

1864.

8 lss 8 lfd B. (weak)
Jan. 21. Surfaced. Several of
the smaller bulbs damped off.
Feb. 15. A flower bud.
Mar. 5. Anst. - from same bulb.
Apr 29. 4 growth-buds.
May 14. First flower open.
17. 2 more growth buds
Aug. 1. Flowers done.

1865.

7 lss. 7 lfd. Bulbs.
Jan. 13. Potted.
Mar. 29. A flower bud.
Apr. 23. 2 growths.
May 20. First flower open
June 11. Flowers done.

1866

10 lss. 7 lfd. 1 Bulb.
22 Feb. A strong growth. Potted
26. 3 Flower-buds.
Mar. 30. A growth.
Apr. 7. First flower open. (4 spikes)
14. 3 more growths.
May 19. Flowers done

To 30.

Epidendrum fragrans

7 leafless 6 leafy B.

Jamaica. 16. Mar 1863.

May 18. Blackened on both.

June 19. 3 growth-buds.

July 15. 2 more - " -

Aug. 15. 1 more - " -

1864.

11 lvs 2 lfd B. 6 str. gro.

Mar. 26. A growth-bud.

May 17. Anot. " - " -

Aug. 28. Several flower sheaths

1865.

12 lvs. 7 lfd. 3 gro. 1 fl. sp.

Feb. 9. A new growth.

Aug. 14. A flower spathe.

Dec. 10. A new growth.

1866.

12 lvs. 10 lfd. 1 Bulb. 1 gro.

Jan. 20. A new growth.

July 21. 2 flower spathes.

24 To a Wall-pot.

1867.

11 lvs. 10 lfd. B. 1 growth.

Mar. 6. A growth. Ap. 27. Anot.

June 5. Anot. - " - 26. A spathe.

Lonopsis

4 Clumps cont.^d 18 crowns.

Jamaica. 16 May 1863.

May 11. Blackened on both.

June 19. 2 growth-buds.

July 16. 3 more - " -

1864.

7 crowns. 1 gro bud.

April 11. It has gradually died.

Schomburgkia

2 centd B. & Growth.
a leafless B. decay in the shaft
I cut away to the sound part,
tied on the earth. (It died.)

In fork of a tree.

Jamaica. 16th May 1863

May 18. Tightened & mopped it.

It grows immediately.

June 28. Another growth.

1864.

4 lfd B. (2 of these young)

Apr. 13. 3 growth-buds. (say 3)

Oct. 1. 2 of them damped off.

Dec. 28. 1 strong growth-bud.

1865.

5 lfd. B. 1 growth bud.

June 3. Flower spathe.

June 4. A new growth.

27. A new growth-bud.

July 30. A flower up the.

1866.

8 lfd. 1 Bulbs.

Mar. 7. A growth. Apr. 10. Another.

Apr. 24. Re-blocked.

Dec. 9. A new growth. 19th Another.

1867.

1 lss. 8 lfd. B. 2 growths.

Aug. 20. A growth. Sept 1. Another grows.

Oncidium luridum (guttatum).

5 leaves. 2 Stout Growth

Jamaica. 16 May 1863.

May 18. Suspended it in a small
basket of bits of hoop, charred.
It grows immediately with
vigour.

Oct. 15. Two fine leaves are
made, from the larger of which
a flower - shoot is making.

1864.

7 leaves. 1 flo. shoot.

Mar. 17. Potted it. (Note.)

30. A growth-bud.

Apr. 24. Two more d.

May 14. Flowers open (30 in all)

Oct. 28. Flower-shoot appears.

1865.

8 leaves. 1 flo. bud.

Jan. 14. Potted. (All damped
except 2 old leaves)

May 1. A new growth.

July 11. This damped off.

Sept. 4. 2 new growths.

Oct. 3. These damped off.

1866.

2 old leaves.

Apr. 30. A growth.

Sept. 26. Shifted.

1867

2 leaves.

Jan. 24. Shifted.

Gongora

16 lvs. 12 lfd. 13. 6 growths
Loose.

Bought at Miss Traill's Sale
May 15. 1863. 1/-

Potted immediately.

Dec. 25. 4 new bulbs are made
7 growths.

1864

25 lvs 7 lfd B. 7 growths
Jan. 23. Surfaced.

Feb. 17. New growth.

May 17. 7 growths in all.

1865.

20 lvs. 15 lfd B. 7 growths.

Jan. 18. Surfaced.

May 20. 3 new growths.

1866.

22 lvs. 3 lfd. 13. 5 growths.

Jan. 8. Surfaced.

1867.

13 lvs. 15 lfd. B. 3 growths.

Mar. 9. A new growth.

Apr. 20. A flower spike

May 11. And. — " —

June 1. Flowers. 1st spike of 11.

10. Do. 2^d. " 2

22. Flowering done.

July 8. 4 growths Aug. 4. A fl. sp.

Sept. 1. Flowers. 13 in all.

24 2^d growth. 1st fl. sp. 1st fl. sp.

Epidendrum crassifolium.

About 24 main stems, many small

Loose.

Traill's Sale. May 15. 1863. 1/-

Potted immediately.

July 17. Flowering done.

1864

About 40 stems.

Jan. 22. 4 growths.

Surfaced.

Apr. 7. Several flower-buds.

1865.

About 48 stems.

Mar. 25. Many growths.

28. First flower (of 22 spikes)

July 19. Flowering done.

June 23. Fruit dehiscent: sowed seeds.

Oct. 18. Several flower spikes

Dec. 5. 4 sm. spike grown out of an
old fl.-stalk, is in flower.

1866.

Many. About 12 fl. stems.

Apr. 1. Many strong growths.

May 1. Thinned away old thin stems.

Aug. 20. Last flower faded (In fl. since Dec. 1865)

Dec. 12. 6 flower spikes.

1867

Many. 8 flower stems.

Feb. 14. First flower. of 8 spikes.

June 24. Flowers done

Brasavola Digbyana.

3 leafless; 4 leaved Bulbs.

Loose.

1/2

Trail's Sale. May 15. 1863.

Potted immediately.

July 13. A new growth.

1864.

4 lvs. 14 lfd B.

Jan. 18. Potted.

May 17. A growth. bud.

July 6. Added, from Stevens' Sale

2 lvs. 7 lfd B.; 1 growth. 6/

Dec. 12. A growth.

1865

7 lvs. 12 lfd B. 1 gro. bud.

Apr. 2. A growth bud. 11th Ans?

1866.

6 lvs. 13 lfd. Bulbs.

Jan. 8. Surfaced.

Feb. 3. A growth.

Apr. 21. Another D?

Nov. 27. A new growth

1867.

6 lvs. 19 lfd B. 1 growth.

July 8. 2 growths.

Oct. 1. 1 growth.

1868

Nov. 17. 1 growth.

Stanhopea tigrina

34

18 leafless; 25 leaved Bulbs

Loose.

6.

Trail's Sale. May 15. 1863

Basketed immediately.

June. 14. A growth. bud.

Flower very small.

July 9. Taken from by many.

It cont. 2 formed flowers.

16. 6 more growths.

Dec. 25. 16 bulbs are made.

1864.

38 lvs. 21 lfd B.

Mar. 30. Surfaced.

May 17. A new growth.

25. A flower-bud pushing: -
flat, 2-lobed, dark.

July 2. First flo. opens (of 2).

1865.

49 lvs. 16 lfd. 1 sh. growth.

May 18. 3

1866.

52 lvs. 24 lfd. B. 2 gro.

Jan. 17. Surfaced, I made
several cuts for back brs.

Dec. 7. Re-distrib. & re-basketed.

17. 4 flo. ? spike.

1867.

51 lvs. 37 lfd B.

Dendrobium Pierardii. 2.

About 15 main stems, slender, mainly naked, with 8 secondary growths. 5 basal growths.

Loose.

Traill's Sale. May 15, 1863.

Potted immediately.

June 16. Separated 6 offsets from the stems, & planted in the pot.

Dec. 25. About 5 new bulbs made

1864.

14 lvs 14 lfd stems (cir.)

Jan. 25. To a wire basket.

Feb. 1. Flower-buds appear.

Mar. 25. 3 Flowers open; and many more fls. buds push.

Apr. 4. A growth-bud.

14. Flowers are done.

May 20. 26 growths & buds.

1865.

3 lvs. 12 lfd. B. (the free only)

Mar. 25. A flower bud.

Dec. 25. Flower-buds appear

1866.

18 lvs. 16 lfd. B. many fl. buds

Jan. 15. Surfaced.

Feb. 17. Flowers. (Mr. b.) Done.

1867.

Feb. 7. Flower buds appear.

Mar. 2. Re-budded; adding many terminal growths from 1.

7. First flowers open (8 in all.)

Apr. 8. Flowers done.

Dec. 10. About 40 fls. buds.

Dendrobium Paxtoni.

3 strong, 7 small, leafless 13.

7 leafed. 6 root growths

2 old, 5 growing secondaries.

Loose.

Traill's Sale. May 15, 1863.

Potted immediately.

June 13. Cut off the 5 secondary shoots, & planted in same pot.

Dec. 25. 8 bulbs are made.

4 of the secondaries (June 13) are dead. A long bulb dead at base.

I cut off, & wound round surface of pot, pegging it down.

1864.

25 lvs Bulbs.

Jan. 21. Surfaced.

May 17. 10 new growths.

1865.

23 lvs. 8 lfd. B.

Jan. 14. Potted.

May 12. 2 growth-buds.

June 16. Flower buds, & many secondary growths.

July 3. Bent down the 3 latter.

1866.

? lvs. 12 lfd. Bulbs.

Jan. 8. Surfaced.

Apr. 10. 6 growths.

1867.

30 lvs. 8 lfd. Bulbs.

Mar. 18. Shifted.

April 1. A flower-bud.

1 2 growths.

To fo. 39.

Cattleya amethystina.

10 leafless: - 3 leaved Bulbs.
Loose.

14. Low Lb.° Aug. 15. 1863.

Potted immediately.

Sept. 20. 2 new growths.

Dec. 25. 1 bulb made
2 strong growths

1864.

11 lvs 3 lfd B. 3 str. gro.

Jan. 23. Surfaced.

Feb. 5. A fl. spathe appears.

Apr. 19. 3 growth-buds.

Aug. 16. 1 strong growth.

~~Sept. 17.~~ Flower spathe in ditto.

Oct. 25. (c Nov. 3. D.°) 12. D.°)

Dec. 17. Fourth fl.-spathe appears.

1865.

12 lvs. 11 lfd. B. 4 fls. sp.

Jan. 18. Potted.

Apr. 26. A growth-bud.

May 8. 2 flowers open (5 in all)

June 5. Flowers done.

2 new growths.

Nov. 20-30. 3 new growths.

Nov. 27. A flower spathe.

1866.

9 lvs. 16 lfd. B. 2 gro (1 abn mat.)

Jan. 20. Surfaced.

Apr. 11. 1 flower open.

May 6. 4 growths.

12. Flower done.

To fo. 38.

Leptotes bicolor.

25 leaves (5 of this season)

Blocked.

14. Low Lb.° Aug. 15. 1863.

Nov. 18. 2 Flower-buds appear.

Dec. 15. 2 more " "

17. Re-blocked. (note)

25. 2 new leaves made.

3 new Flower-buds.

1864.

27 leaves; 7 fls. shoots.

Mar. 9. First flower opens.

20. The 6th (last) fls. opens.

Apr. 17. Flowers withered.

26. A growth-bud.

May 17. 5 more " "

Aug. 28. A flower-bud.

1865.

33 leaves. 10 fls. buds.

Feb. 26. First flower (of 14)

Apr. 13. Flowers done.

26. A growth-bud.

Sept. 5. 2 Flower spathes.

1866.

42 leaves. 9 fls. buds.

Mar. 11. First flower (of 14.)

Apr. 11. A growth-bud.

21. Flowers done.

22. 3 growths.

May 26. 4 more d.° (8 in all)

Aug. 26. 5 flower-buds.

1867.

43 leaves. 10 fls. buds.

Feb. 15. First flower (of 18.)

Mar 21. A growth.

To fo. 39.

Limatodes rosea.

4 leafless: 4 leaved Bulbs.
Pot.

H. Low & Co. Aug. 15. 1863.
Aug. 28. Re-surfaced.

1864

8 les Bulbs.
Jan. 21. A growth.
Potted.

Mar. 27. 2 more growth buds.
Apr. 15. 2 more - " - "
May 17. 1 more - " - "
Sept. 6. A flower-bud.
Dec. 29. First flower open (of 12)

1865

12 les. Bulbs. 1 flo. spike.
Jan. 23. Flowers done.
Mar. 28. Potted. Uniting to it
specimen bought June 1864, now
comprising 6 lvs bulbs. 6.
4 new growths.

Sept. 15. 2 flower - spikes.
Dec. 8. Flower (1st spike of 8 flo.)
17. D. (2nd " - of 4 ")

1866.

9 les. Bulbs. 2 spikes of bloom
Feb. 9. Flowers done.
18. A growth.
22. Potted. in 5 thumb pots.
Apr. 4. 4 more growths.
Seed pod (Cal. vest. 5) de hisces
May 20. Shifted all to 1 pot.
Aug. 27. A flower - spike.
Nov. 29. First flower (of 8)

To 19.

Dendrobium Farmeri.

6 leafless: 5 leaved Bulbs
13 block.

H. Low & Co. Aug. 18. 1863.
Sept. (1st) a strong growth.
Dec. 24. Cork-barked block
A new bulb made.

1864.

7 les 5 lfd B.
April 30. A growth-bud.
May 17. Anot. - " - "
Aug. 6. Anot. " - " - "

1865.

5 les. 10 lfd. Bulbs.
April 11. A growth-bud.
17. 2 more - " - "
July 28. 1 " from matured bulb.

1866.

10 les. 7 lfd. Bulbs.
Feb. 2. Flower bud, 1 on old bulb.
Mar. 8. 10 lovely flowers.
31. Flowers done.
Apr. 23. A growth bud.
May 15. Anot. B. on
Sept. 26. Anot. L. on
Anot. more advanced 1 D.

1867

13 les. 9 lfd. Bulbs.
Feb. 8. 3 flower-buds.
Mar. 20. Flowers open. (1 spike of 17 flo.)
Apr. 8. Flowers done.
9. To a wall-pot.
27. A growth.

To 39.

Oncidium papilio, majus.

6 leafless: 13 leaved 1 Bulbs
3 flower-stems; 1 cut off.

1 Block.

H. Low & Co. Aug. 15. 1863.

Oct. 8. " " " "

Dec. 21. A strong growth.

25. 2 more growths.

1864.

15 lvs 4 lfd B. 3 gro. 4 fl. sh.

Feb. 8. Re-blocked. (Note)

Apr. 20. 1 flower-bud formed.

May 10. 2 more " " "

16. First flower opens.

24. Second " " "

July 21. 2 flowers open.

Aug. 3. Another " "

19. Flowers done.

Sept. 1. Another flower bud forming

Oct. 8. 22 growth-buds.

1865.

12 lvs. 7 lfd. B. 3 str. growths.

Jan. 24. 1 new growth.

Apr. 19. A flower-bud formed.

May 17. First flower opens.

June 20.

1866.

12 lvs. 13 lfd. B. 1 gro. 4 old fl. sh.

Mar. 28. A flower bud formed.

May 4. First flower open. 18" Anot.

June 24. Two flowers on 2 other stems.

June 25. Flowers done.

July 14. Another flower. 20" Anot. fl.

24. To a Wall-pot with Onc. pap. f. 5.

To 5.

36
Oncidium crispum.

9 leafless bulbs: 3 growths.
1 flower-shoot?

1 Block.

H. Low & Co. Aug. 15. 1863.

Dec. 23. Re-blocked.

3 bulbs made.

25. A growth bud.

1864.

8 lvs 3 lfd. B. 1 gro. bud.

Mar. 4. A growth.

May 17. 2 " "

Aug. 18. Flo. spike peeps.

Nov. 13. First flower (of 15)

Dec. 25. Flowers done.

1865.

9 lvs. 5 lfd. B. 2 growths.

Jan. 24. 1 new growth.

July 30. 2 flo. spikes peep.

Oct. 26. First flower (of 13)

Nov. 27. Flowering done.

Dec. 13. A new growth

Re-fastened on same block.

1866.

7 lvs. 4 lfd. Bulbs. 1 growth.

Jan. 19. A new growth-bud.

Mar. 7. Another " " "

May 26. The bulbs yearly becoming
slenderer, I potted it, & removed
to Paxton House.

July 31. A new growth.

Aug. 9. Another " " from same bulbs.

Oct. 15. 2 new growths.

To 19.

Vanda gigantea. 1.

6 leaves (2 of them faded)
Loose.

Bought as imported, with
the following at Stevens' sale
August 4. 1863. - - 12 1/2

Aug. 17. Potted in sherds.

Oct. 7. A new leaf forming.

1864.

4 leaves (1 of them young)
Mar. 4. Surfaced; sphagn. & cocoa,
whole sphagn., & crocks.
May 14. A new root.

1865

6 leaves.

Jan. 7. Repotted in the same;
uniting with No. 2, & Stevens's.

1866.

32 leaves; on 4 plants.
Jan. 13. Surfaced.
Apr. 21. A leaf peeps.
Sept. 4. - " - "
Nov. 27. A flower-spathe.

1867.

35 leaves, on 4 pl. 1 fl. sp.
Jan. 30. First flower (of 4)
Mar. 24. Flowers done.
April 10. 2 leaf peeps { 20th Anos.
July 8. Anos. - " - { Aug. 10. Anos.
Sept. 24. Anos. - " -

Vanda gigantea. 2.

1) 4 leaves. (1 faded)
2) 2 leaves. -
Loose.

Bought with preceding, Aug 4/63.
Aug. 17. Potted in sherds.

1864.

5 leaves.

Feb. 20. A new leaf appears.

Mar. 3. Anos. - " - " -

Surf. sphagnum & crocks.

Apr. 1. A new leaf.

May 17. Anos. - " - peeping.

1865

10 leaves.

Jan. 7. To the preceding.

Disa grandiflora

1 last season's offset.

1 strong new d: -
4 in. Pot.

Presented by Ch. Leach, Esq. of
Clapham Park, Sept. 10. 1863.

Repotted immediately.

Oct. (15?) The old plant decayed
sloughed off: the new one grows
apace, & flourishes.

Nov. 15. An offset is peeping.

1864.

1 Crown. 1 doubtful offset.

Feb. 4. A lateral sucker.

15. Surfaced.

May 1. It, flower is pushing: ^{height} 5 1/2 in.

July 1. Anst. " - " -

Aug. 4. Flowers withered.

11. Shifted to 7 in. pot.

1865

1 Crown. 1 Offset.

Mar. 20. Main crown damped off.

Aug. 1. All dead.

37

15 Tubers.

Rec? from Capt. Bulger, Brit.
Raffraria, 5th Jan. 5 1864.

Planted immediately in 1 pot.

Feb. 16. One shoot above ground.

Mar. 1. Another " - " -

11. Another " - " -

20. Another " - " -

May 21. One leaf has died, hav-
ing made a small tuber.

Sept. 14. One above ground again

Nov. 11. Another - " -

1865.

The two made a pair of leaves, each
which decayed in autumn.

1866.

Jan. 18. Potted. 2 good tubers.

Mar. 29. One shoot above ground.

Apr. 1. Anst. " - " - " -

Nov. 27. One shoot above ground.

1867.

Feb. 12. Anst. shoot up.

15. Shifted.

1 leafed; 1 leafless, 1 Bulb
Pará. Sept. 22. 1863.

Sept. 25. Potted.

Oct. 10. A growth-bud.

1864.

2 lvs Bulbs. 1 str. growth.

Jan. 24. A new growth-bud.

Feb. 8. Surfaced.

Sept. 10. 2 bulbs made: to Rest.

Oct. 7.

1865.

2 lvs. 2 yd. B.

Jan. 6. Potted.

Feb. 4. A growth-bud.

1866.

2 lvs 1 Bulb.

April 7. Dead.

1 leafed; 2 leafless, 1 Bulb
Pará. Sept. 22. '63.

Sept. 25. Potted.

Nov. 25. A growth-bud pushing.

1864.

3 lvs B. 1 gro. bud [damped off]

Feb. 8. Surfaced.

1865.

Dead.

3 leafless bulbs

Pará. Sept. 22. 1863.

Sept 25. Potted.

1864.

2 lvs B.

1865.

Cattleya amethystina. ^{F.} 35.

1866

Sept. 11. 4 new, growths

1867

8 lvs. 23 lvs. B. 4 st. growths.

Feb. 5. Shipped.

Mar. 2. 2 spathes. / p. 3. 2 more.

May 5. Flowers open. (9 in all C.)

June 5. 2 growths.

4. Flowers done.

Oct. 17. 3 growths.

1868. Dead.

3 leaved, 2 leafless 1 Bulbs

Nov. 6. Evidently dead.

1 leafless Bulb
Para'. Sept. 22. 1863.
Sept. 25. Potted.

1864.

1 less Bulb.

1865.

Leptotes bicolor. from 35.

1867.

Apr. 5. Flowers done.

6. Re-blocked.

July 1. 6 more growths.

27. 1 fl. spike.

Sept 18. 3 " d.

22 green leafless Bulbs.

Para'. Sept. 22. 1863.

Sept. 25. ~~XXXX~~ Blocked

Dec. 25. Most of these withered

1864.

5 less Bulbs.

June 1. All are dead.

Dendrobium Paxtoni from 35.

1867

Apr. 25. 6 more growths.

4 leafless bulbs; 1 growth.

Paraí. Sept. 22. 1863.

Sept. 25. Potted Blocked.

1864.

2 Lss B. 1 gro. bud.

1865.

2 Lss. B. 1 gro. bud.

Dendrob. Farmeri (36).

1867

June 5. A new growth.

July 30. Knot --- " ---

Schomb. ^{kia.}

48 bulbs.

Paraí. Sept. 22. 1863.

Sept. 29. Potted.

Dec. 25. 17 bulbs have dried.

1864.

31 Lss. 1 Lfd B.

Mar. 10. A growth-bud moving

May 17. 7 buds in all moving.

Oct. 27. A flower spathe.

1865.

27 Lss. 2 Lfd. B. 6 nly mature.

Jan. 11. Surfaced:-- Adding Nov. Rio

Apr. 23. Growth-buds start. (1

May 30. 2 more growths.

Oct. 14. A flower spathe.

1866.

27 Lss. 12 Lfd. B.; 3 gro. 1 fl. sp.

Jan. 5. Surfaced.

Apr. 30. A growth.

Sept 7. A flower spathe [leaf]

Nov. 8. 2 flower-spikes.

1867.

17 Lss. 14 Lfd. B. 1 gro. 2 sp.

Jan. 31. Shifted May 10. 4 growths.

Sept. 24. 2 spathes.

Nov. 9. 2 ditto.

Vanda tricolor. 1.

11 leaves. 4 roots { 2 at ground
2 above. " "
Height from ground to fork $5\frac{1}{2}$ inches

Pot.

Low & C. Nov. 2. 1863. %

Dec. 20. A new leaf peeping.

1864.

8 leaves (1 young) 4 roots.

May 1. A new leaf

17. A new leaf - " - peeps.

Nov. 16. A new leaf - " - " "

1865.

12 leaves & 1 peep. 7 branched roots.

Jan. 12. Potted.

July 3. A side growth.

Nov. 13. A new leaf.

1866.

16 + 3 leaves. 13 inches high

Jan. 8. Surfaced.

25. A new leaf peeps.

Apr. 15. A new leaf - " - " -

July 8. A new leaf - " - " -

Aug. 20. A new leaf - " - " -

Dec. 20. A new leaf - " - " -

Dec. 4. A new leaf - " - " -

1867.

23 + 6 leaves. 15½ inches

Jan. 30. Shifted.

Feb. 24. A new leaf peeps

Apr. 7. A new leaf - " - July 2. A new leaf

July 15. A new leaf - " - Aug. 25. A new leaf

Oct. 1. 2. Ditto

Dendrob. formosum, gigant.

5 leafless, 4 leafed bulbs

Pot.

Low & C. Nov. 2. 1863.

1864.

5 lvs 3 lfd. B.

May 17. A growth bud.

24. A new leaf - " -

1865.

6 lvs. 4 lfd. Bulbs.

Jan. 13. Potted.

May 11. A terminal growth.

June 27. All damped off (Note)

1866.

Mar. 26. From the old stems laid by
3 growths have broken, etc.
I today potted off.

May 3. 10 lvs Bulbs, (very small)

Pot. at Stevens's for 12/10 leave

4. Cut away most of the roots, and
wired to a naked board.

9. Started. 3 new growths

31. 2 more growths.

1867

16 lvs. 5 lfd. Bulbs.

Jan. 28. A growth.

31. Shifted to a Pot.

Nov. 4. 3 more growths { July 8. 1 Ditto

Aug. 16. A fls. bud. { Sept 9. Flowers (1.

Oct. 29. Flower done.

Cattleya citrina. 1.

8 leafless bulbs (7 withered)
1 leafed - " - 1 growth.

Block. 13/.

Low & C: Nov. 2. 1863.

1864.

8 lvs 2 lfd Bulbs.
Apr. 2. Mossed the block.

1865.

8 lvs. 3 lfd. 1 Bulb.
Jan. 30. Set in block on a larger one.
July 5. At back-break.
29. 4 gro. bud from last bulb.
Aug. 13. 2 " " " penult. "

1866.

8 lvs. 1 lfd. 3 gro. nly. mature
Mar. 27. 2 growths (from back bulb)
July 6. Removed to Corb: (disinfecting)
Aug. 3. A new back break.

1867

7 lvs. 2 lfd. B. 1 growth.
May 24. 2 growths.

40

Burlingtonia venusta.

2 leafless, 4 leafed Bulbs
4 growths.

13/.

Block.

Low & C: Nov. 2. 1863.

Dec. 21. Re-blocked.

1864.

1 lvs 5 lfd. B. 3 growths.
July 4. At flower spike.
" 6. One flower. (no more)
Aug. 6. Flower withered.
" 1 new growth.

1865.

6 lfd Bulbs. 2 growths.

Dead.

Cattleya Leopoldii

10 leafless, 3 leaved bulbs.

Loose. 6/-

Bought as imported, at
Stevens' Sale. Oct. 23/63.

Nov. 4. Potted it.

1864.

12 lvs Bulbs.

Jan. 27. A growth-bud.

Apr. 20. 2 more " "

1865.

12 lvs. 4 lvs. B. 3 str. growths

Jan. 18. Potted

Apr. 26. 2 growth-buds.

May 9. 1 " - "

Aug. 9. New - " - "

Oct. 26. 2 more - " - "

1866.

7 lvs. 11 lvs. B. 3 str. growths

Jan. 22. Surfaced.

Apr. 24. 2 new growths.

Sept. 11. 3 " - " - "

Nov. 5. A flower-spathe.

1867.

4 lvs. 15 lvs. B. 2 gro. 1 spa.

Feb. 5. Shifted. Apr. 27. 2 growths

June 5. 1 growth.

Sept. 19. 1 spathe. Oct. 17. 3 growths.

Dec. 28. A spathe.

Cattleya

13 leafless B. 1 growth.

Loose.

Bought with preceding. 6/-

Nov. 4. Potted it.

1864.

13 lvs Bulbs. 1 growth.

Mar. 31. 3 growth-buds.

Aug. 18. 2 " "

1865.

12 lvs. 7 lvs. B. 1 fl. spathe.

Jan. 16. Potted.

Mar. 28. A growth (in Feb. ?)

2 new - " - "

May 9. 1 " - " - "

June 20. 1 " - " - "

Oct. 26. 3 new growths

1866.

9 lvs. 13 lvs. B. 4 growths.

Jan. 20. Surfaced.

Mar. 6. A flower spathe.

May 25. 3 growths.

1867.

8 lvs. 22 lvs. B. 6 growths.

Feb. 4. Shifted. Mar. 2. A spathe

Mar. 21. 2 more fl. spathes.

June 5. 2 new growths.

Oct. 17. 3 " " - "

Dec. 28. A spathe.

6 crowns (separate plants)

Loose.

Bought with preceding. 6/
Nov. 3. Potted

1864.

6 crowns.

Aug. 8. First flower insignificant.
Sept 30. Flowers done.

1865.

5 crowns. 3 growths.

Jan. 12. Re-potted.

Apr. 18. A new growth.

21 (?) A flower spike.

May 1. 2 more do.

June 26. First flowers open.

Aug. 10. Flowers done.

1866.

4. Crowns. (Poorly)

Jan. 9. Potted.

Apr. 10. Re-potted in Crocks & Sphagnum.

Nov. 29. Re-potted.

1867

1 Crown. 7 leaves.

July 27. A leaf-petiole. Oct. 22. And do.

Trichopilia suavis. ⁴¹

3 leafless; 1 leafed Bulbs
1 strong growth.

Loose.

Bought with preceding. ^{24/-}
Nov. 3. Potted & etc.

1864.

3 lbs 1 lfa. B. 1 str. gro.

Mar. 16. A growth-bud.

June 11. And? " - "

1865.

2 lbs. 3 lfa. B. (immature)

Jan. 11. Potted.

Mar. 2. The new bulb damaged & TH
Dead.

Cyprip. barb., grandiflorum

2 Crowns.
Loose.

Jeffries (Spawick). Nov. 12. 1863.
Nov. 13. Potted.

1864.

2 Crowns.

Feb. 14. A flower bud.

Apr. 26. Flower opens. See Note }
May 4. " }

May 17. 3 growths.

May 30. Flower done.

1865

6 Crowns.

Jan. 5. United with A.T. { 7.
11. }

Cattleya Mossiæ, superba. 2.

2 fine leaved Bulbs. 1 flower sheath.
Loose.

Jeffries. Nov. 12. 1863.
Nov. 13. Potted.

1864.

2 lfs B. 1 strong fl. sheath.

April 24. A lovely flo. open (3 in all.)

May 19. Flowers done.

June 15. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Nov. 3. Flower spathe.

1865.

3 lfs. Bulbs. 1 fl. spathe.

Jan. 18. Potted.

June 3. 1 flower open.

20. Flower done.

26. A growth bud.

1866.

1 lfs. 2 lfs. B. 1 gro. only sent.

Feb. 5. Dead.

Dendrobium Kingianum.

2 leaved Bulbs - 1 flower bud.
Loose.

Jeffries. 12. Nov. 1863.
Nov 13. Potted.

1864.

2 lfd B. 1 minute fl. bud.
May 24. 2 fls. buds (aborted)
July 20. A growth.
Aug. 1. Potted.

1865.

1 lvs. 3 lfd B.
Aug. 7. To a Tile.
Nov. 16. 3 new bulbs made; one of wh.
protrudes a flower-spathe.
Dec. 15. This spathe withered

1866.

1 lvs. 6 lfd. Bulbs.
May 25. A growth bud.
June 23. Removed to cork-block.
Sept. 8. 2 growths.

1867.

1 lvs. 7 lfd. Bulbs.
July 27. 2 growths.

Trichopilia tortilis. 2. 42

1 lvs, 2 lfd B. 1 growth.
Loose.

Jeffries. 12. Nov. 1863.
Nov 13. Potted.

1864.

1 lvs 3 lfd B.
May 17. A growth-bud.

1865.

3 lvs. 2 lfd. Bulbs.
Jan. 19. Potted.

Miltonia candida.

1 leafy Bulb with 3 fl. stalks.
Loose.

Jeffries. 12. c. Nov. 1863.

Nov 13. Potted.

Dec. 16. 2 strong growths.

1864.

1 lfd B. 2 growth buds.

Aug. 25. A flo.-bud from one of
these two bulbs.

Oct. 8. 2 strong growths.

Dec. 23. Potted: uniting with
it, one bot at Stevens's. 4.
A growth-bud.

1865.

2 lss. 4 lfd. B. 3 growths.
Aug. 9. A new growth.

1866.

1 lss. 4 lfd. B. 1 gro. (weak)

Jan. 6. Potted.

Feb. 14. A new growth.

Oct. 5. A bulb is tipped with what
looks like a flower-bud.

Nov. 13. A growth.

29. Shifted.

1867

2 lss. 8 lfd. B. 2 growths.

Feb. 14. 2 more growths.

Sept 17. 2 new growths.

Maxillaria graminea.

5 leafy Bulbs. 3 strong growths.
Loose.

Jeffries 12. c. Nov. 1863.

Nov 13. Potted.

1864

5 lfs Bulbs. 3 strong growths

Mar. 31. 3 gro-buds. (from the 3 new bulbs)

May 17. And 7-11

Aug. 13. 5 new growths.

1865.

1 lss. 7 lfd. B. 9 growths.

Jan. 12. Potted.

June 20. 6 growth buds.

1866.

5 lss. 9 lfd. B. 10 growths

Feb. 5. Surfaced.

Dec. 10. Shifted.

1867.

5 lss. 5 lfd. Bulbs.

July 2. 3 growths.

Lycaste tetragona.

1 leafy bulb. 1 growth.

Loose.

Jeffries. 12. Nov. /63.

Nov 13. Potted.

1864.

1 lfy Bulb. 1 growth.

Aug. 15. Bulb made; put to rest.

Sept 17. A new growth.

1865.

1 lvy. 1 lfy. B. 1 str. gro.

Jan. 4. Potted.

Apr. 11. A new growth.

Oct. 21. A new growth.

Dec. 14. A " ditto

1866.

2 lvy. Bulbs. 2 growths.

Jan. 10. Surfaced.

Aug. 1. A leafy.

Nov. 12. Added to Max. Harr. (F. 17.

Aerides roseum.

43

5 Leaves.

Pot.

Jacksons. Jan. 30. 1864. 7/6

May 3. A new leaf peep.

Aug. 5. A " - " - "

Nov. 16. A " - " - " - "

1865.

7 leaves & 1 peep.

Jan. 12. Potted.

Feb. 7. Last 3 leaves rotted off.

April (?) A side growth.

Added. 3 plants in 1 Basket
10, 7, 5 leaves. 1 peep. 1 old fl. st.

Stevens's Aug. 2. 1865.

12.

Hamer's Coll.?

1866.

36 leaves on 4 crowns (plants).

Jan. 16. Surfaced.

Aug. 4. A leaf peep.

Nov. 23. Re-basketed.

1867

29 leaves on 4 plants.

Jan. 2. A leaf, peep.

Feb. 27. 2 d. d.

Apr. 4. A flower-bud

May 14. A leaf peep.

24. Flowers (46 in all.

June 3. A leaf peep 30. An.

14. Flowers done.

July 13. A peep. 15. An.

Sept. 5. An. - " - 14. 2 ditto

Nov. 3. An. - " -

1870. Added to A. affinis.

Dendrobium moniliforme.

3 lvs. 1 lfd B. 2 flowers.

Pot.

Jacksons. Jan. 30. 1864. 57.

Feb. 5. Flowers withering.

10. Re-potted.

Apr. 24. A growth-bud.

1865.

3 lvs. 1 lfd B.

May 30. A growth-bud.

Aug. 9. A not - " - "

1866.

3 lvs. 2 lfd B. (1

Feb. 16. Surfaced.

July 25. 2 growth buds.

Aug. 27. 2 flower-buds.

1867.

4 lvs. 2 lfd. Bulbs.

Mar. 5. A growth. 7. Shifted.

July 16. Dead.

Brassia maculata.

2 lfd Bulbs. 2 strong Growths.

Pot.

Jacksons. Jan. 30. 1864. 58.

Mar. 27. A growth-bud.

Apr. 27. Another " - "

May 17. A not " - "

1865.

1 lvs. 3 lfd B. 2 growths.

Jan. 19. Potted.

Apr. 29. A new growth.

May 26. A not - "

June 20. 3 - " - "

Oct. 31. 2 new gro. buds, wh. I removed.

1866.

1 lvs. 5 lfd B. 4 gro. (4 nly. mature)

Jan. 8. Surfaced.

Mar. 26. A new growth. 11. 11.

Sept. 17. A bud.

Dec. 4. Shifted.

1867

4 lvs. 6 lfd B. 4 growths.

July 8. 3 growths (more this year)

Aug. 2. 3 ditto. { Jan. 24. 1 lvs.

Nov. 26. 2 flower buds.

Laelia anceps.

- 2 Lvs. 5 lfd B. 1 fl. spathe.
 Block.
 Jacksons. Jan. 30. 1864. 196
 Feb. 1. Mossed & suspended it.
 Apr. 2. At growth bud
 Nov 16. This has developed feebly,
 but now shows a fl.-scape.
 Dec. 26. Motted, through drip.

1865.

- 3 lvs. 4 lfd. 1 Bulb.
 March 1. Set the block in crocks
 sphagnum in a pot.
 20. At growth.
 Aug. 14. At flower spathe.

1866.

- 6 lvs. 1 lfd. (new) B. 1 fl. spike.
 Feb. 16. Surfaced.
 May 4. at growth bud.
 Oct. 1. United with one of F. 63.

Cattleya Skinneri.

44

- 3 lvs. 6 lfd. B. 2 fl. spathes.
 Pot.
 Jacksons. Jan. 30. 1864. 106
 May 23. At growth bud.
 Oct. 8. Flower spathe appears.
 Nov. 12. Anot. - " - "

1865.

- 5 lvs. 6 lfd. B. 2 fl. scapes.
 Jan. 10. Potted.
 Apr. 26. At back break.
 May 4. At growth bud
 June 20. 2 " "
 Oct. 6. At flower spathe.

1866.

- 4 lvs. 6 lfd. B. 1 gro. nly mature.
 Feb. 5. Dead.

4 lvs. 12 lfd. B. 4 gro. 3 fl. spikes
 Pot.

- Stevens' (Rucker) 9th May 67. 251
 Aug. 22. At flower spathe.
 Sept. 2. 2 - " - " - 10th At 4th d.

Lycaste cruenta.

3 lvs. 1 lfd. Bulbs.
Pot.

Jacksons. Jan. 30. 1864. 7/6
Mar. 12. A growth-bud.

1865

3 lvs. 1 lfd. Bulbs.
Jan. 10. Potted.
Apr. 14. A growth-bud.

1866.

2 lvs. Bulbs. 2 str. growths
Feb. 16. Surfaced.
May 6. A new growth.

1867.

3 lvs. 1 lfd. Bulbs.
Mar. 18. Added to Lycaste
aromatica. 7:51.

Oncidium leucochilum.

1 lvs. 2 lfd. Bulbs.
Pot.

Jacksons. Jan. 30. 1864. 5/7
Feb. 1. Re-potted it.
Apr. 11. A growth-bud.

1865

2 lvs. 2 lfd. Bulbs.
Jan. 10. Potted.
Mar. 14. A growth.

1866.

2 lvs. 2 lfd. Bulbs.
Feb. 16. Surfaced.
Apr. 9. A growth-bud.

1867.

~~4 lvs. 15 lfd. Bulbs. 3 growths~~

Acineta Humboldti.

12 lvs Bulbs. 3 Growths.

Pot.

57. Jacksons. Jan. 30. 1864. 7.

Feb. 1. Removed to wire basket.

Mar. 30. Another growth bud.

May 17. 2 new - " - " -

1865.

5 lvs. 2 lfd. Bulbs. 6 growths
June 24. To a tile.

1866.

1 lvs. 2 lfd. Bulbs. 1 gro. (poor)
June 27. To a cork.

Aug. 4. 2 growths.

Oct. 11. 2 ditto

1867

3 lvs. 2 lfd. B. 3 growths.

Jan. 2. 1 growth. } Feb. 22. 2 new?

July 6. A " - - -

45

Renanthera coccinea.

5 leaves, 3 roots. (all unhealthy)

Pot.

Jacksons. Jan. 30. 1864. 57.

June 10th. A new root.

Sept. 15. A growth bud.

Nov. 1. 1st.

1865.

1 leaf. 1 growth (centre rotted)

Jan. 14. Potted (abundant 1 stout
new roots in the pot)

Feb. 25. A new growth - bud

Apr. 17. Another - " - " -

1866.

5 leaves (1 old)... roots drying.

Jan. 8. Surfacted.

March 1. Dead.

Cœlogyne cristata.

4 lss. 2 lfd. Bulbs.
Pot.

Jacksons. Jan. 30. 1864.

Feb. 1. Re-potted.

Mar. 16. A growth-bud.

Dec. 7. Bulb swells rapidly

1865.

4 lss. 2 lfd. Bulbs.

Jan. 10. Potted.

Mar. 10. A growth-bud.

31. Anot (from same bulb)

1866.

2 lss. 2 lfd. Bulbs.

Jan. 13. Surfaced.

Mar. 12. Potted level; rich.

30. 2 growths. = Oct. Bulbs.

Dec. 21. 2 growth-buds. Potted.

1867.

5 lss. 1 lfd B. 2 growths

32 " 11 " 14 " - Bought

at Stevens's, from Dr. Pattison's Sale

15. May 1867; Lot 241; for 10/-

May 17. Repotted all.

June 5. 2 new growths.

Sept 26. 3 flower? buds.

Odontoglossum citrosmum.

3 lss. 2 lfd. Bulbs.
Pot.

Jacksons. Jan. 30. 1864. 10/6

Mar. 25. A growth-bud.

1865.

3 lss. 2 lfd. Bulbs.

Jan. 9. Potted.

Apr. 26. A growth-bud.

1866.

2 lss. 2 lfd. Bulbs.

Feb. 16. Surfaced.

Mar. 12. Potted level; rich.

May 30. A growth.

1867.

3 lss. 2 lfd. Bulbs.

Mar. 18. Shifted.

May 20. A growth.

Oncidium

2 lvs Bulbs. 1 strong Growth.

Pot.

10/6 Jacksons. Jan. 30. 1864. 7/6
Aug. 31 Bulb made: loose L.

1865.

2 lvs. 1 lfd. Bulbs.

Jan. 13. Potted.

Feb. 16. A growth-bud.

Nov. 17. Dead.

Trichopilia tortilis (from 30.

1867

Apr. 27. 2 new growths.

June 5. 2 more - "

July 26. 1 lvs. spike Aug. 2. 2. & 3rd.

Aug. 14. First flower 21. 2nd flower.

Sept. 2. 3rd. spathe 23. 3rd flower

20. 4th. - bud.

Oct. 13. Flower done 18. 4th. ft. bud.

Nov. 9. A flower.

Dec. 17. Flower done.

46

Sobralia dichotoma.

1 lvs. 1 two-leaved Stems; 1 bud.

Pot.

Jacksons. Jan. 30. 1864. 2/6
Feb. 1. Re-potted. March. Died.

Serapias cordigera.

Sev. Tubers; 5 in flower.

Obtained by Miss Maggide of Weston
from Mentone. May 23. 1866

1867

Oct 22. 5 Tubers growing.

Shifted.

Calanthe discolor.

1 lvs. 1 lfd Bulb. 3 growths.
Pot.

J. Carter & Co. 5th Feb. 1864.

Feb. 6. Re-potted.

15. Another growth.

Aug. 8. 3 buds, pushing

Sept. 3. 2 more.

1865.

11 leaves. 5 growth buds.

Jan. 4. Potted.

Mar. (?) 2 more growths.

Apr. 30. 3 fls. spikes appear

May 5. Flowers open.

June 1. Flowers done.

1866.

? lvs. 4 lfd. Bulbs: 1 growth.

Feb. 16. Potted.

Mar. 8. 2 new growths.

1867.

1 lfd Bulb. 2 gro. (poor)

Mar. 7. Shifted.

Disa grandiflora. 2.

Large mossy mass.

April 13. 1864. See Note.

June 9. 6 plants above-ground

July 31. About 20 in all.

Sept. 5. Separated a few from
this pot, & planted in another. (See 3)

1865.

6 plants.

Disa grandiflora. 3.

1 broken up. Loose tubers.

Apr. 13. 1864. Note.

Sept. 15. Turned all out, none
having started.

4 young plants, pricked out
from pot N. 2: page 47, a. Sep. 5/64

1866.

4 Lpd. plants: 3 offsets.

Jan. 8. Surfaced. (Note.)

June 7. 1st flower, pushing.

July 21. Flower open.

Aug. 3. A new offset.

21. Flower done.

23. Shifted.

1867.

2 strong, 8 small, Crowns.

Feb. 11. Shifted.

May 21. Flower swelling. (3 buds in)

July 2. A new growth (offset).

6. First flower (of 3)

Aug. 28. Flowers done.

Disa grandiflora. 4. ⁴⁷

Angular lump; sev. brown stems.

April 13. 1864. Note.

Sept. 1. Turned all out, dead.

Disa purpurea. 1.

12 Tubers.

April 13. 1864. note.

June 9. 1 appears above-ground.

1865

Disa purpurea. 2.

0 Tubers.

April 13. 1864. note.

June 9. 1 above-ground.

1865.

Disa barbata.

13 Tubers.

April 13, 1864. Note.

June 7. Above ground. (2)

1865.

48
Penthea melaleuca.

3 Tubers.

April 13, 1864. Note.

Apr. 20. Above ground.

July 4. Flower showing in center

1865.

1866

Mar. 20. Above ground.

Nov. 14. 2 growths up.

Shifted it.

1867

Aug. 28. 1 growth up.

Shifted.

Sept. 7. 2nd growth up.

Disa rosea. 1.

5 large, - 4 small, Tubers.

April 13. 1864. Note.

April 25. Above ground.

1865

May 26. 2 above ground.

Disa rosea. 2.

5 Tubers.

April 13. 1864. Note.

Apr. 25. Above ground.

1865.

June. 2 above ground.

Aug. 16. Pushing flower.

Disa rosea. 3.

4 small Tubers.

April 13. 1864. Note.

May 17. 1 above ground.

1865.

1866.

July 12. Exam?; found 4 tub. alive
shifted to a 5 inch pot, -
removed from Frame to Stovehouse.

Satyrium ^{erectum. 49}
fragrans.

11 Tubers.

April 13. 1864. Note.

May 17. 3 are above ground.

July 31. Pushing up for flower

Sept. 5. One fl. spike above ground.

17. In flower.

Oct. 24. Flowering done.

1865.

1866

July 12. 1 Tuber alive. Treated
it as *D. rosea*, preceding.

Satyrium cucullatum.

11 Tubers.

April 13. 1864. Note.

May 17. 4 above ground.

1865.

Phytanopsis grandiflora

July 29. A new leaf peeps.

Nov. 22. Anot. " - "

1865

3 leaves & 1 peeping.

Mar. 11. First growth of the, peep.

Apr. 18.

A side growth

25. A new central leaf.

July 30. Anot. " "

Aug. 17. To a tile.

1866.

2 leaves. (Side growth dead?)

Mar. 5. A new leaf peeps.

7. Re-blocked. (See Note.)

May 12. A new leaf peeps.

Nov. 1. Anot. " "

1867.

4 leaves.

Feb. 13. A new root. 16th. A leaf-peep.

Mar. 27. 1 flower bud.

May 28. First flower open (5th J.)

July 29. Flowers done. (say Aug. 6th.)

Aug. 12. A new peep.

Dec. 17. A side growth.

Chysis bracteescens.

Nov. 24. The bulb is made; sat rest.
A new growth.
Dec. 14. Potted it.

1865.

4 lvs. 1 bulb. 1 growth.
Feb. 21. Flower spike forming.
Apr. 5. First flower (of 4).
17. Flowers faded.

1866.

4 lvs. 1 lfd. Bulbs.
Feb. 4. Flower ^{growth} pushing.
? Apr. 2. Surfaced.
Dec. 4. Notched rhiz. bet. 3^d & 4th bulbs.

1867.

5 lvs. 1 lfd. Bulbs. 1 growth.
Jan. 19. To a wall-joint.
Feb. 5. Flower spike swells.
27. First flower open (of 3)
p. Mar. 27. Flowers done (in Oct. 160.)
Apr. 24. A fine growth behind cut.
e. iv. 20. at 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.

50

Cattleya superba.

14 lvs. 1 lfd B. 2 growths.
Pot. (not established.) 25.
Stevens' Sale. 28th June 1864.
Aug. 20. A strong growth.
Sept 4. This contains flo. spathe
Oct. 24. One flo. open (of 2)
4 more growths, one
open. Shows flo. spathe
Nov. 25. First flowers done.

1865.

14 lvs. 5 lfd. 1 gro. 1 ft. sp.
May 30. A feeble growth-bud.

1866.

5 lvs. Bulbs. 1 gro. (dying)
Apr. 2. Fastened it to a split hazel
block: - 4 old bulbs alive.
Dec. 31. Dead

5 lvs. 4 l, d. Bulbs. 1 growth.
Basket.

Stevens' (Day) May 9. 1867. - 27.
June 23. 1 flower & spathe.
Aug. 7. Flowers. (2 in all).
Sept. 5. Done flo.

Lycaste aromatica.

9 lvs Bulbs. 2 strong growths
Pot. 4/1
Stevens's Sale. 28th June 1864.

1865.

8 lvs. 2 lfd. Bulbs.
Jan. 10. Potted.
Apr. 26. A growth bud.
May 5. 1 - " "

1866.

9 lvs. 1 lfd. B. 1 growth.
Feb. 16. Surfaced.
May 6. 1 flower bud.
1 growth.
25. 1 flower. (all)
June 18. Flower done.
Sept. 11. Shifted; added to it "L. Sk."
(See Feb 10. upper? this species).

1867.

17 lvs. 5 lfd. Bulbs.
Mar. 18. Shifted. Added L. cruent.
Apr. 27. 8 lvs. buds; & 4 growths.
June 1. Flowers: - 9 in all.
Impregn? with L. Harrisonia.
30. Flowers done.

Cattleya

4 lvs. 1 lfd B. 1 growth.
Pot. 7/1
Stevens's. June 28. 1864.

1865.

4 lvs. 2 lfd. B. 1 growth.
Jan. 3. Potted.
June 19. A new growth.

1866.

4 lvs. 4 lfd. Bulbs; 1 str. gro.
Jan. 18. Surfaced.

1867.

4 lvs. 6 lfd. Bulbs.
Mar. 7. Shifted.
Apr. 27. 1 growth.
June 5. 2 B.

Vanda suavis.

8 leaves: 1 root above-ground.

Stevens's. ^{4/} Pot. June 28. 1864.

1865.

10 leaves.

Jan. 12. Potted.

Aug. 9. & new leaf, leaves.

1866.

13 leaves. Height $3\frac{1}{2}$ in.

Feb. 3. A new leaf peeps.

June 1. Anot. " "

Sept. 26. Anot. " - - "

Nov. 26. Shifted.

1867.

10 leaves. Ht. $4\frac{3}{4}$ in.

April 6. A leaf peeps.

June 17. Anot. - " -

Oct. 2. Anot. - "

Saccolabium guttatum.

51

5 leaves: 1 long root.

Stevens's. ^{4/} Pot. 28. June 1864. ^{4/}
Aug. 15. & new root. Shifted it.

1865.

5 leaves. 2 roots above gr.

Jan. 12. Potted.

Apr. 10. & new leaf.

June 8. Anot. "

1866.

3 leaves. 3 roots ab. gr. Height $1\frac{7}{8}$ in.

Jan. 9. A new leaf peeps.

May 4. Anot. - d? - d?

Sept. 10. Anot. - d? - d?

Nov. 29. Shifted.

1867.

6 leaves.

Mar. 26. A leaf peeps.

June 9. Anot. " - -

Aug. 15. Anot. " - -

Brassia Wraya.

2 leaved Bulbs. 1 strong growth
Pot.

Stevens's, 28th June 1864.

1865.

1 lvs. 2 lfd. 1 bulb.

Jan. 6. Repotted.

A growth bud.

1866.

3 lvs. 1 lfd. Bulbs.

Feb. 4. The last 2 bulbs dumped off.

Mar. 9. Dead.

Oncidium

1 leaved Bulb.

Pot.

Stevens's, 28th June 1864.

1865.

1 lfd. 1 bulb.

Jan. 13. Potted.

Feb. 16. A growth bud.

1866.

2 lfd. Bulbs.

Mar. 5. A growth bud.

1867.

2 lvs. 1 lfd. B. (poor.)

Mar. 18. Shifted.

Apr. 27. A growth.

Ansellia Natalensis.

3 leafy Bulbs. 2 sh. growths.
Pot. 10/6

Stevens's, 28 June 1864.

Oct. 16. 2 terminal flo. spathes

1865.

5 lfd. 1 Bulb. 2 flo. stems.

Mar. 11. First flowers open.

Apr. 3. A strong growth-bud.

11. Another " "

17. 2 more " "

Re-potted.

23. Flowers done.

May 15. Another growth.

Oct. 23. First flower-bud appears.

1866.

9 lfd. Bulbs: 5 flo. spikes.

Jan. 18. First flower. (of 5 spikes)

Mar. 20. Flowers done.

28. 2 growths. Apr. 20. 2 d.

Apr. 2. Surfacted (at Rivers)

July 7. A new growth.

Dec. 12. 3 flower spikes.

1867.

1 lvs. 14 lfd B. 2 fl. spikes.

Feb. 11. Flowers. (1 spike of 8 in all)

Mar. 26. Flowers done.

Apr. 5. Shifted

19. A growth May 13. 3 d.

June 21. 2 more " "

Oct. 12. 8 flo. spathes.

52

Odontoglossum Insleayi.

1 lvs. 2 lfd. B. 1 fl. sh. 1 growth.

Pot. Stevens's; June 28. 1864.

Aug. 11. First flower (of 2) 27/

Sept. 10. Flowers done.

1865.

2 lvs. 2 lfd. B.

Jan. 9. Re-potted.

Apr. (?) A growth.

May 5. Flower stem appears.

Soon another, from same growth.

July 29. First flower open (of 10)

Sept. 5. Flowers done.

1866.

2 lvs. 3 lfd. B.; 1 pod

Feb. 16. Surfacted.

Mar. 9. Potted level; rich.

Apr. 5. Cut the seed-pod, dehiscing.

May 12. 3 growths.

25. Flower-division appears.

July 21. First flower open (of 7)

1867

2 lvs. 5 lfd. Bulbs.

Mar. 16. Shifted.

27. 2 growths.

Apr. 27. Flowers of both show.

June 24. Flowers. (19 in all)

Aug. 1. Flowers done.

Epidendrum vitellinum. 1.

12 green lvs. Bulbs: 3 growths.

Pot.

Stevens's. 28 June 1864. '56

Oct. 1. Flower spathe appears

Dec. 14. A new growth.

21. Potted.

1865.

13 lvs. 3 lfd. B. 1 gro. 1 fl. sp.

Feb. 4. Anor. growth-budg.

10. Anor. - " - " -

Aug. 14. 4 flower spathe.

Sept. 15. 2 more B. -

1866.

8 lvs. 3 lfd. B.; 3 fl. spa.

Jan. 16. A new growth.

Feb. 1. Anor. - " - " - 5th B.

5. Surfaced.

1867.

5 lvs. 4 lfd. Bulbs.

Jan. 7. 2 growths.

18. United this with E. vit.

St. on 8. 58.

Oncidium excavatum.

6 lvs. 11 lfd. B.; 3 growths.

Loose.

Stevens's; 28 June 1864.

July 5. Potted in usual compost.

1865.

6 lvs. 10 lfd. B.

Feb. 8. 3 growths.

27. Potted.

Mar. 20. 2 new growths.

May 12. Anor. - " -

1866.

8 lvs. 7 lfd. Bulbs: 1 growth.

Jan. 11. Surfaced.

Feb. 27. A new growth.

Sept. 12. Shifted to smaller Pot.

1867.

3 lvs. 7 lfd. Bulbs.

Jan. 24. Shifted.

Mar. 4. A growth. (19th Anor)

June 5. 2 more growths.

Dendrobium aggregatum.

1864.

60 lbs. 65 lfd. Bulbs.

Round block.

Stevens's. 28 June 1864. ^{3/6}

Aug. 22. 5 new growths..

1865.

About 70 lbs. 46 lfd Bulbs.

Apr. 13. 2 strong growths.

28. Removed to Tile (Note.

1866.

14 lbs. 17 lfd. Bulbs.

April 9. 2 growths.

May 1. 2 more d.

June 20. Removed to a cork block.

1867.

6 lbs. 25 lfd. Bulbs.

Jan. 28. A growth. Feb. 7. And.

Feb. 13. A flower bud.

22. 2 new growths.

Mar. 27. Flowers very large. 1st fruit

Apr. 8. Flowers done.

May 2. A growth. 3rd And.

10. 2 more d. 29th And.

Jul. 10. 2 " d. 30th And.

Aug. 2. 1 " d.

1869. May 13.

D. aggr. maj. 70 79.

D. aggr. maj. 2

D. aggr. min.

loose paper

in 70 83.

were added
to this, on
one board.

Dendrobium Jenkinsii.

53

1864.

47 lbs. 11 lfd Bulbs.

Split 1 block.

Stevens's. 28 June, 1864. ^{3/6}

July 25. A growth. 30th. Another.

1865.

52 lbs. 11 lfd. Bulbs.

Apr. 28. Mossed it.

A new growth.

July 3. 2 " "

4. Removed to a Tile.

1866.

About 75 lbs. 19 lfd. Bulbs

Apr. 24. 6 growths.

June 19. Removed to a Cork block.

1867.

42 lbs. 16 lfd. Bulbs.

Jan. 16. Re-mossed.

Mar. 14. A growth.

April 9. 2 more d.

May 24. 2 more d. July 28. 3 d.

Oct. 5. 2 " d.

Bolbophyllum Lobbii.

11 lvs. 22 lfd. B. 1 growth.

Loose.

Stevens's; 28 June 1864. 3/

July 5. Potted.

Aug. 15. 3 new growths.

1865

16 lvs. 18 lfd. B. 6 growths.

Jan. 6. Potted in wide seed-pan.

Apr. 29. Several new growths

Oct. 1. 1 new growth.

1866.

20 lvs. 9 lfd. B. 8 growths

Jan. 8. Sur faced.

July 27. Doing badly in compost,
removed to bare cork slab.

1867.

9 lvs. 3 lfd. 2 growths.

May 30. Potted in crocks & sphagnum.

(Dying away.)

Aug. 15. 2 growths.

Burlingtonia decora.

13 lvs. 15 lfd. B.; 8 growths.

Loose.

Stevens's; June 28. 1864. 3/

July 5. Blocked on cork slab.

1865.

3 lvs. 11 lfd. B. 4 growths.

Mar. 28. 5 growth-buds.

1866.

3 lvs. 16 lfd. Bulbs: 4 growths.

Sept. 26. Reblocked on naked slab.

1867

3 lvs. 18 lfd. B. 5 gro.

Jan. 25. 1 flower; bud.

Oncidium altissimum (Lamr.)

11 lvs. 12 lfd. B.; 6 str. growths
14 in Pot. (broken in transit)
Stevens's: 28 June 1864 7.
July 6. Planted in a Box.

1865.

11 lvs. 16 lfd. B. 1 str. gro.
Feb. 28. Potted.
May 8. 2 new growths.
17. Anot. " —

1866.

14 lvs. 6 lfd. B.; 2 gro. nly m.
Jan. 10. Surfaced.
Feb. 28. 2 growths.
Sept. 8. A flower spike.
20. Anot. — " — "
Dec. 19. Anot. — " — "

1867

7 lvs. 8 lfd. B. 3 flo. sp.
Feb. 11. First flowers (ab. 215 in all)
20. A growth.
Apr. 18. Flowering done. Shifted.
July 8. 2 new growths.
Sept. 4. 2 more — "
Oct. 14. 2 flo. spikes

Aerides odoratum; 2.

19 leaves & 1 peeping; on main stem
3 side shoots. 12 roots
Pot.
Stevens's: June 28. 1864. 7.

1865.

22 leaves. 3 shoots hav. 15 leaves
Feb. 2. at flo. bud (?)
20 Another — " — Ap. 5. Anot.
June 9. Flowered. (3 spikes)
July 12. Flowers done.

1866.

27 + 10 + 10 + 8 leaves.
Jan. 15. Surfaced.
Feb. 14. 2 flower-buds.
27. 3 more ditto.
Mar. 6. 1 " d. (on side growth)
15. 1 " d.
May 30. Flowered. 5 spikes = 40 28
June 25. A side growth. 34 26
26. Done flowering. 33. 161
July 10. 3 side growths.

1867.

32 + 14 + 13 + 10 + 4 + 4 + 3 leaves
Feb. 12. A flower-bud
Mar. 8. Anot. — " — 18. Anot.
27. 2 more d.
June 6. Flower. 4 spikes { 54 } flo.
20. Flowers done. { 30 } 140.
22 { 34 }
Sept 24. 1, keep

Oncidium bicallosum.

1 lvs. 5 lfd. 2 str. growths
Lancer (smashed)
Van Houtte, Ghent. Aug. 4. 1864.
Aug. 5. Re-potted.

1865

1 lvs. 7 lfd. Bulbs.
Jan. 19. Potted. (See Note.)
June 9. 2 growths.
Dec. 2. A new growth.

1866.

2 lvs. 7 lfd. Bulbs.
Jan. 13. Surfaced.
Apr. 26. A growth.
June 26. And? D.
Nov. 26. Shifted.

1867.

2 lvs. 8 lfd. Bulbs.
Jan. 18. To a Walipot.
Apr. 27. A growth.

Sobralia macrantha.

4 stems (1 48 inches) 1 growth.
201.
Van Houtte. Aug. 4. 1864.
Nov. 14. A new growth.

1865.

1 lvs. 4 lfd. Stems. 1 growth.
Jan. 3. Potted in loam.
Feb. 1. And? growth.
May 19. And? — " — 26th And?
June 7. And? "
July 13. Flower-bud forming.
25. Flower opens. 29th done
Aug. 3. 2nd flower. 10th done

1866.

10 leaved stems.
Feb. 15. Surfaced.
Mar. 28. Flower bud forming
May 4. 2 growths.
7. First flower in bud. 12. Full
16 2nd Do — 20th It fell.
24. 3rd Do — 28th It fell.
June 2. 4th Do — 28th It fell.
July 8. A new growth.

1867

11 lfd. stems.
Apr. 27. Flower-bud forming.
June 5. A growth.
10. 1st Flower. 18th Done.
18. 2^d do - 26. - "
July 1. A new growth. 15. 2 more.
13. Shifted.

Phajus maculatus.

5 lvs Bulbs. 1 strong growth.

Pot.

Van Houtte. Aug. 4. 1864.

1865.

5 lvs. 1 lfd. Bulbs.

Jan. 14. Potted.

Mar. 27. A growth.

May 21. A back break.

Oct. 26. A new growth.

Dec. 5. 2 small growths.

1866.

7 lvs. 1 lfd. B.; 2 growths

Jan. 6. Potted.

Oct. 13. A flo. (?) bud.

1867

7 lvs. 2 lfd. B. 4 growths.

Feb. 10. Shifted

May 28. A growth buds. June 1. Anor.

Dec. 6. A no. bud.

55

Phajus bicolor.

1 lfd bulb. 1 growth (bulb only).

Pot.

Van Houtte. Aug. 11. 1864.

1865.

2 lfd. Bulbs. 1 gro. bud.

Jan. 3. Potted.

Apr. 10. A growth. 22? Another.

1866.

1 lvs. Bulb. 3 growths.

Jan. 6. Potted.

Feb. 25. 2 growths.

Aug. 6. 2 - " -

Oct. 23. Potted.

1867.

2 lvs. 2 lfd B. 2 growths.

July 8. 3 growths.

Epidendrum Stamfordianum

3 lfd Bulbs. 1 strong growth.

Pot.

Van Houtte. Aug. 4. 1864.

1865

4 lfd. 1 Bulbs.

Jan. 14. Potted.

June 13. 1 growth. bud.

1866.

5 lfd. Bulbs.

Mar. 9. Dead.

Bonatea speciosa.

5 large roots. 3 flower buds.

Dispotter.

Charles Leach Esq. Oct. 27. 1864.

Potted immediately. Cool.

1865.

No injuries.

Jan. 24. 4 new growths.

Feb. 3. Potted.

Oct. 1 4 flower-heads swell

1866.

6 lfd. growths. 4 ft. spikes.

Jan. 8. Flowers began to open.

Mar. 19. 6 new growths.

28. Potted. (Flo. done)

Apr. 11. 3 more growths.

Oct. 20. 4 flower buds.

1867

7 lfd gro. 1 fl. sp.

Feb. 26. 5 growths.

Mar. 7. Shifted.

20. Flowers. Ap. 7. Done

Apr. 10. 13 growths.

Oct. 18. 8 flower buds.

Bletia hyacinthina

A mass of bulbs at rest.

Dispotted.

Charles Leach, Esq. Oct. 27. 1864.

Potted immediately. Cool.

1865.

Jan. 4. Repotted.

Feb. 19. First growth above ground.

June 22 (9 growths in all)

1866.

1866. Dormant.

Jan. 13. 7 growths started.

Surfaced.

Nov. 15. 10 growths above ground.

Dec. 4. 1 more " " "

A flower-spike pushing.

1867.

11 str. growths. 1 flo. spike.

Jan. 7. 2 more flo. scapes.

Feb. 11. Flower (1st spike).

Apr. 6. Flowers done.

Oct. 18. 5 growths up. Shifting.

Cattleya crispa (Stev.)

1 lss. 9 lfd. B. 1 gro. 1 ft. spathe.
Pot.

Stevens's. 28th June 1864. 4/1.
Sept. 9. 2 growth buds.

1865.

1 lss. 10 lfd. B. 2 str. growths.

Jan. 17. Potted.

Feb. 4. Flower spathe peeps.

July 18. Flower swells spathe.

Aug. 9. A growth bud

16. First flower (of 4.)

Sept. 4. Flowers done.

1866.

1 lss. 11 lfd. B. 4 growths.

Jan. 20. Surfaced.

Feb. 20. A flower-spathe.

July 17. 2 new growths.

27. 3 " " B.

Sept. 11. 2 " " B.

Dec. 27. A new flo. spathe.

1867.

1 lss. 16 lfd. B.; 4 gro. 2 spathe.

Feb. 5. Shifted.

Apr. 6. A new spathe.

June 5. A growth.

July 29. Flowers 14 in all.

Aug. 14. Flowers done.

Oct. 17. 6 growths.

Dec. 9. 2 flo. spathe.

27. A new " " "

Odontoglossum grande (Skinn.)

8 large lvs. Bulbs, all with stout
old flower stalks, & one with two.

Loose as imported. ^{3/4}

Veitch, Chelsea. April 5. 1865

April 6. To Cork slab.

20. A strong growth.

May 1. Anot — " —

Sept. 11. A flower spathe

Nov. 7. First flower open (of 4):

it is very large & handsome

Dec. 22. Flowers done

1866.

8 lvs. 2 lfd. Bulbs.

Mar. 27. 2 growth. buds.

July 24. To a Wall-pot.

1867.

5 lvs. 4 lfd. Bulbs.

Mar. 15. Shifted.

April 11. 3 growths.

Aug. 12. 3 flo. spikes.

26. 2 more —

Sept. 28. First flower open (of

Dec. 1. Flowers done.

Odontogloss^m. pulchellum Sk.

12 lvs. Bulbs.

Loose (as imported ?). Guat.

Veitch. April 5. 1865. ^{3/4}

Apr. 6. Potted (note)

May 5. A growth-bud.

June 24. 2 more —

1866.

12 lvs. 3 lfd (new) Bulbs.

Feb. 16. In. p. a.

Mar. 12. Potted level: rich.

May 30. A growth.

Aug. 3. A back-break.

1867.

10 lvs. 6 lfd. Bulbs.

Mar. 18. Shifted.

May 25. 3 growths.

Flowered May 10. 1872.

Proves

Trichopilia tortilis

Barkeria Skinneri.

12 stems; 1 growth.

Loose (as imported?). $\frac{3}{4}$
James Veitch. April 5. 1865.

April 7. Basket. (See note)

May 1. A new growth.

June 22. 2 - " - " - "

Sept. 20. A flower spike

Nov. 10. Another smaller one

1866.

13 lvs. 2 lpd. st. 1 gro. 2 ft. sc. feeble

Apr. 24. 2 growths.

May 4. 1 do

1867

3 lvs. 2 lpd. B. (feeble)

Mar. 2. Added to the following.

Shiner ends

Skinneri.

57

Barkeria elegans.

13 stems: 5 growths.

Loose (as imported?). $\frac{3}{4}$
James Veitch. April 5. 1865.

Apr. 7. Basket. (See note)

May 1. A new growth.

June 22. 1 - " - " - "

Oct. 3. A flower spike.

Nov. 10.

1866.

12 lvs. 7 lpd. st. 1 fl. sc. (stronger)

Feb. 1. A new growth.

11. First flower (of 2)

28. Flower done.

Apr. 24. 4 new growths.

May 6. 2 more do.

Sept. 11. A flower spathe.

Dec. 14. Flowers: (1st spike of 1 fl.)

1867

11 lvs. 4 lpd. B. 2 fl. sp.

Jan. 1. 2nd spike fl. (of 6)

Feb. 22. 3 growths.

Mar. 2. United the preceding to this

30. To a hanging pot.

Apr. 23. 4 more growths.

May 21. 2 more - " - "

A flower spathe [aborted]

Aug. 28. 5 new spathe.

Sept. 5. 1 do do do

Epidend. vitellinum (Skinner).

20 lbs. Bulbs: 6 growths (1 of which
4 on 2 bulbs): many old flo. stalks.

Loose (as imported?). $\frac{3}{4}$

James Veitch. April 5. 1865.

April 7. To Cork Stab (Stoke)

28. A new growth.

May 27. A flower spathe peeps.

July 15. A flower open (of 4)

Aug. 4. A no? flo. spathe.

Oct. 5. Flowers done (from July 15)

1866.

17 lbs. 5 lfd. B. 2 gro. 3 fl. spds.

Feb. 5. A new growth. 13. Ans?

June 25. A flower open. (of 13)

Sept. 22. Flowers done.

1867.

9 lbs. 7 lfd. Bulbs.

Jan. 7. 2 growths.

18. This, with that of 5:53, put
together into a Wall-pot.

May 14. A flower spathe.

20. 3 more - " - } 6 in all.

June 5. 2 more - " - }

27. First flower (of 27 in all)

Oct. 29. Flowers done (4 months)

Hartwegia purpurea.

15 leaves; each with old flower stalk.

Loose (as imported?). $\frac{3}{4}$

James Veitch. April 5. 1865.

April 7. To a Cork Stab (Stoke)

June 3. 2 growth - buds.

22. 2 - " - "

July 21. A flo. spike

1866.

12 leaves. 1 fl. spathe.

May 19. A growth.

June 22. A no? - " - "

July 20. A no? - " - "

27. A flower bud.

Aug. 3. A no? - " - } 3 new growths.

1867.

8 lbs. 16 lfd. 3 fl. spathes

Feb. 14. Re-blocked.

April 17. A growth } June 3. A no?

Aug. 7. 2 more - " - } 1 fl. spathe.

Cattleya Trianaei.

1 lvs. 2 lfd B. 1 growth. 17/2
Loose.

Stevens's Sale. Apr. 6. 1865

Potted 11.4 April.

June 22. Flower spathe seen.

1866.

1 lvs. 3 lfd. B. 1 gro. nly mat.

Jan. 20. Surfaced.

Apr. 4. A new growth.

July 17. A flower spathe.

1867

1 lvs. 5 lfd B. 1 spathe

Mar. 7. Shifted.

Apr. 27. A growth July 13. Spathe

Dec. 28. A growth.

The *Hartwegia purpurea* should be grown in masses, and it is then a very gay plant, with its numerous brilliant crimson flowers and exquisitely marked leaf, it might be exhibited amongst the *Anacochilus*.

Cattleya elegans.

4 lvs. 3 lfd B. 1 nly made.
Loose.

Stevens's. April 6. 1865. 19/2

Potted 11.4 Apr.

May 17. A growth bud.

July 27. Flower spathe.

Oct. 18. Flower open. (1)

27. A new growth bud.

Nov. 13. Flower falls.

Dec. 27. A back break (out for.)

1866.

4 lvs. 5 lfd. Bulbs, 2, growths.

Jan. 20. Surfaced.

July 17. A new growth.

Jan. 3. A flower spathe.

1867

4 lvs. 7 lfd. B. 1 fl. spathe

Jan. 3. Flowers open (4 in all)

Mar. 2. A growth.

8. Flowers done.

15. Shifted.

Apr. 27. A growth.

Aug. 8. A no. "

Oct. 17. A spathe.

Dec. 20. A no. "

Govenia superba

1 lss Bulb. 2 swellings.

Loose.

Stevens's. April 6. 1865

Potted 11th Ap.

May 13. A growth bud.

1866.

1 lss. Bulb.

Jan. 5. Potted. (3 swell. ³ beneath)

May 15. A growth bud.

June 22. A flower bud.

July 14. First flower. Aug. 7. Done.

Aug. 17. Shifted.

1867

1 lss Bulb, dormant.

June 13. A growth. Shifted

Aerides Lobbi.

16 leaves. 1 flower bud

Loose

Stevens's. April 6th 1865

Potted in Sphagnum & Crooks.

June 17. Began to flower.

July 23. Flowers done.

30. A new leaf peep.

Oct. 26. L^o L^o "

1866.

21 Leaves. Height 5 ³/₄ "

Jan. 8. Surged.

19. A new leaf peep.

Mar. 28. A flower bud.

Aug. 1. A new leaf, from centre

1 plant; 6 growths. (8 old fl. stem)
Loose as imported.

Bot. at Stevens's, 25. March, '66.

Apr. 19. Blo. red.

22. A leaf peep.

May 19. A 2nd & 3rd peep.

25. A 4th ditto

June 5. A new peep. } 27. A new

July 4. A " - " - } 13. A new

Aug. 2. A " - " - } Oct. 14. A new

Oct. 17. A " - " - } Nov. 3. A new

Dec. 31. A " - " -

Saccolabium curvifolium

6 leaves. 3 truncate roots

Loose

Stevens's. April 6. 1865. 18/

Apr. 11. To a Cork block.

May 13. A new leaf.

July 3. Ditto.

1866.

6 leaves (14?) 3 long roots.

June 12. A leaf peep.

July 18. To a Pot of crocks.

Oct. 8. A leaf peep.

Nov. 29. Re-potted.

1867

7 leaves:

Apr. 14. A peep. July 29. And?

59

Dend. macrophyll. (gigan.

4 lvs Bulbs. 1 growth.

Loose.

Stevens's. April 6. 1865. 7/

Potted (Sph. & Crocks).

July 3. Began down a second growth.

1866.

4 lvs. 2 lfd. B. (the chief 19 1/2 in.)

Jan. 11. Surfaced.

Feb. 27. 2 fls. buds.

Mar. 9. A growth.

April 2. Surfaced.

6. One noble flower opens.

19. A new growth.

23. Flower done.

1867.

4 lvs. 2 lfd. B. 16/10. buds

Jan. 2. A growth.

Mar. 7. Flowers. (17 in all.)

23 Flowers done. Shifted.

Lycaste Skinneri.

3 lvs. 1 lfd. B. 1 flower.

Loose.

Stevens's. April 6. 1865. 1865

Potted. Apr. 11th

May 8. Flower withered.

11. 2 growth buds.

21. Anot. " - "

1866.

3 lvs. 2 lfd. B. 2 gro. (n.m.) 3 buds.

Jun. 31. Anot. (flo.?) bud. (4 in all.

Feb. 3. Surfaced.

July 25. 2 flower buds.

Oct. 24. Flowers open. 2)

Dec. 26. Flowers done.

1867

4 lvs. 3 lfd. B. 1 growth.

Jan. 30. Shifted. Anot. growth.

Oct. 17. A flower bud.

26. 2 more d.

Sophronitis cernua.

12 leaves. 2 lvs. Bulbs.

Loose.

Stevens's. April 6th 1865. 11

11th To a Cork block.

June 28. A new growth.

Dec. 4. 1 fl. sp. appears.

1866.

1 lvs. 12 lfd. B. 4 gro. 2 fl. sp.

May 16. 2 growth buds.

June 10. 2 more - "

Aug. 3. A flower spike.

Sept. 5. 1st flower (of 2)

28. Flowers done.

1867

1 lvs. 17 lfd. Bulbs.

Feb. 14. Re-blocked.

June 6. 3 growths. 10th Anot.

Sept 24. A fl. spike } 28. An^t spi.

Oct. 7. Flowers. 16 in all

Nov. 14. Flowers done.

Dendrobium aggregatum.

60 lvs. 65 lvs. Bulbs.

60
Dendrobium Jenkinsii.

Dendrobium bicolor.

54 lfs. 23 lfd. Bulbs.
Board.

Low +6: 20th May 1865. 10th
May 23. Transferred to a Tile.

1866.
? lfs. 29 lfd. Bulbs.

Apr. 26. Several growths.

Sept. 17. 2 flo. buds (on new bulbs)

Oct. 9. Flowers open (1 spike of 12)

20. Flowers done.

26. A new flower-bud.

Nov. 20. Flowers open (1 sp. of 12)

Dec. 8. Flowers done

1867

36 lfs. 37 lfd. B. 2 growths.

Feb. 12. To a Wall-pot.

April 1. 7 growths in all.

11 lfs. 3 lfd. Bulbs. Bot at Day's
Sale 9th May; (Lot 219. 4.) Added.

Aug. 27. 2 flower buds. Sep. 13. Flo. (11.

Oct. 1. 10. 2 one flo. 21. 1 new l. buds.

22. New bud. Oct. 8. Flo. 5 sp. 56 fl.

Oct 19. Flo. done.

Pierardi (Lion)
Dendrob. ~~Dayanum~~ De

6 lfs Bulbs. 3 str. growths.

Board.

Low +6: 20th May 1865.

May 22. Transferred to a Tile.

Dec. 20. A strong bulb made, shows
many flower-buds at joints.

1866.

6 lfs. 3 lfd. B.; 15 flo. buds.

Feb. 6. Flowers. Mar. 6. Done.

Mar 5. 2 growths.

May 2. Added several growths, la-
terals, thinned from D. Pier. 8:1.

1867.

Jan. 14. Flower-buds.

Dend. Dalhousianum. Neottia speciosa.

6 lvs. 2 lfd B. 1 strong frust
3 flo. buds. on alss. B.

Pot.

Low + 6: 20th May 1865. 21/

May 23. The 3 flowers open.

June 1. Flowers done.

1866. (new B. 3. 7 long)
5 lvs. 2 lfd. B.

Jan. 13. Shifted to a saucer.

Feb. 27. A flower bud.

Mar. 6. A growth bud.

Apr. 2. Surfaced.

16. First flower (of 11)
(very magnificent)

May 2. Flowers done.

4. Sub. growth from same bulb.

June 8. An: d. from first growth.

1867

12 lvs. 2 lfd. Bulbs.

Feb. 14. Flower bud, on stem bef. flower.

Mar. 21. A growth.

April 11. Flowers (4 in all)

18. Shifted.

27. Flowers done.

29. 2 more growths.

July 8. 4 basal & 5 lateral growths

1 strong Crown.

Pot.

Low + 6: 20th May 1865. 7/6

June 13. The leaves have all decayed away; 2 new buds are pushing from collar.

1866.

2 white buds.

Dead.

Oncidium barbatum

5 lvs. 2 lfd. B. 1 growth.

Board.

Low + 6: 20th May 1865. ^{10/6}

May 22. Transferred to a Tile.

1866.

3 lvs. 3 lfd. Bulbs. 1 growth.

Feb. 8. at growth.

June 20. Removed to a cork block.

Aug. 2. A flower-spike

Oct. 3. Flowers. (19) a beautiful
panicle.

Nov 17. Flowers done.

1867.

3 lvs. 2 lfd. B.

Jan. 24. A flower-spike.

Feb. 27. at growth.

July 31. Flower-spike.

Oct. 7. Flowers (16).

Dec. 26. Flo. done.

Oncidium triquetrum

4 lfd Crowns. 1 fl. spike.

Board.

Low + 6: 20th May 1865. ^{10/6}

May 22. Transferred to a Tile.

June 13. Flowers open (5 in all)

July 3. Flowers done.

16. Another fl.-bud from old
flower-stalk.

Aug. 3. A new growth-bud.

8. Second bloom out.

12. Flowers done.

1866.

5 lfd. Crowns.

May 21. Flower spike prop.

June 29. To a Cork.

Aug. 14. at growth.

1867

3 lfd Crowns. 1 growth.

Jan. 2. at growth.

19. A flower-spike.

Nov 16. A flower-spike.

Oncid. Cavendishianum.

5 single lfd Crowns. 1 str. growth

Pot.

Low 16: 20th May 1865-10%

Aug. 29. 1 flower? 1 bud.

1866.

6 leaves. 1 (fls.?) bud.

Jan. 5. Repotted.

Feb. 14. 1 str. growth. buds.

July 4. 1 flower-spike from, preceding

Sept. 3. First flower open (of 16)

Oct. 30. Flowers done. (8 weeks)

1867

7 leaves.

Jan. 30. Shifted. Mar. 1. 1 str. growth.

July 28. 1 fls. spike.

Oct 13. First flower (of 17)

Dec 24. Flowers done.

1872. Dead.

62

Leptotes serrulata.

1 stump. 9 leaves. 2 fls. spikes
comprising 5 flowers & 3 buds.

Board.

Low 16: 20th May 1865.

June 10. Flowers done.

15. To a Tile.

1866.

1 lvs. 11-leaved Buds.

June 29. To a Cork.

Sept. 20. 2 flower buds.

Nov. 8. 1 new growth.

1867

11 leaves. 2 gro. 1 fl. bud.

Jan. 19. Mossed.

May 16. Flowers. (2 in all)

June 7. Flowers done.

July 8. 3 growths.

Sept 17. 1 fls. bud.

Lælia anceps. 2.

14 lvs. 4 lfd B. 3 gro-buds.

Loose as imported

Low + 6° 20. May 1865 4/

May 27. Transferred to Tile.

June 1. A new growth.

22. A new gro.- bud.

Aug. 3. A flower spathe.

1866.

16 lvs. 6 lfd. B. 1 str. gr. 1 fl. sp

May 10. A growth.

June 10. Anot. D.

July 24. To a Wall-pot

Aug. 25. A flower spathe.

Sept. 20. Anot. - " - D.

Oct. 1. United one F. 44 to this.

1867.

19 lvs. 11 lfd. 3 gro. 2 fl. spi.

Jan. 22. Flower opens (4 in all.

Mar. 11. Flowers done.

15. Shifted

19. A growth. Ap. 11. 5 ditto.

July 1. Anot. - " -

25. 4 Fls. spathes.

Lælia cinnabarina.

4 lvs. 3 lfd B. 1 str. gro. 2 gr. buds.

1 fl. jaring (last of 2).

Loose.

Stevens's; June 21. 1865 7/6

June 24. Potted it.

July 21. Anot. flo-spathe.

Dec. 21. A strong growth-bud.

1866.

4 lvs. 3 lfd. B. 1 gro. bud.

Jan. 10. Surfaced.

Mar. 30. A flower spathe.

May 10. This bulb now perfected is pushing a new growth.

July 15. A fls. spathe in preceding

Dec. 10. A new growth.

Shifted.

1867

1 lvs. 6 lfd B. 2 gro. 2 spa.

Apr. 6. Both the fls. spikes push.

16. A new flower spathe.

May 22. Flowers. (2 in all).

June 14. Flowers done.

22. A new growth.

July 18. Anot. - " - A fls. spathe.

30. Flowers; 10 in all (8 of these Shig)

Sept. 5. A spathe. } 9. Done flower.

13. Anot. d. - } 11. A growth.

Epidendr. cinnabarinum.

4 stems. 1 str. growth. 1 bud.

Loose from pot.

Stevens's. June 21. 1865. 7/6.

June 24. Potted it.

1866.

2 lfd. 5 lfd. Stems.

Jan. 16. Potted.

Feb. 11. A growth.

Mar. 1. a bud. - " -

Aug. 1. a bud. " "

1867

2 lvs. 8 lfd. Stems.

Jan. 16. a flower spathe.

18. Shifted.

Apr. 27. a bud spathe.

2 growths.

Bot. at Stevens's (Dr. Paterson's) Oct 15.

May 14. 1867; or 17. (in part), added

6 stems; 2 growths.

June 1. Flowers. 1st spike 12 fl.

July 6. - " - 2^d - " - 9"

Sept. 11. Done flowering.

Miltonia spect. (Moreliana).

6 lvs. 8 lfd. B. 1 growth.

Squared wood Basket.

Stevens's Aug. 2. 1865. - 22/

Hainer's Coll.?

Oct. 1. A new growth.

1866.

6 lvs. 9 lfd. Buds; 2 growths.

Jan. 10. Surfaced.

23. A new growth.

Feb. 6. a bud. " "

Nov. 16. To a hanging pot.

1867.

3 lvs. 10 lfd. B. 3 growths.

Jan. 17. a new growth.

Apr. 24. 2 new growths.

Aug. 7. a growth.

Cattleya labiata.

8 lvs. 12 lfd B. 3 growths.

Por.

Stevens's. Aug. 2. 1865.

Warner's Coll.?

1866.

6 lvs. 13 lfd. B. 2 growths.

Jan. 22. Surfacted.

Apr. 24. 2 growths.

May 28. 2 D.

July 17. 3 new D. (Tintoto)

Aug. 5. A flower spathe.

Sept. 11. 2 new growths.

Nov. 24. 3 Flowers open.

1867

7 lvs. 18 lfd. B. 3 growths.

Jan. 4. Flowers done. 1 pod.

Feb. 4. Shipped.

Mar. 9. A growth. Ap. 3. Anos?

Apr. 27. 2 new growths.

Aug. 8. A flower spathe

Oct. 17. Anos. " - bud.

Nov. 17. Dead.

Vanda caerulea. 1. A

14 leaves. Height to, or 3 inches

Por.

Stevens's. Aug. 2. 1865.

Warner's Coll.?

Oct. 5. Two massive roots pushing

18. A new leaf.

1866.

13 leaves. Height $5\frac{5}{8}$ in

July 4. A leaf peeps.

Oct. 14. Let - D.

Nov. 24. Shipped.

1867

10 leaves.

April 14. A peep. July 2. Anos. -

Sept. 11. Anos. -

Aerides affine (roseum).

11 leaves (1 of them very young)
Height to fork 3 inches.

Pot.
Morse. 17. Nov. 1865.

1866.

11 leaves (14⁵) Height 3 in.

Jan. 3. Potted.

Feb. 23. A flower bud.

Apr. 21. First flower (12 in all)

May 1. A new leaf.

19. Flowers done.

June 21. A leaf - peep.

Aug. 16. A - " - "

Sept. 12. Shifted (crock)

Nov. 6. A leaf - peep.

27. Shifted.

1867

12 leaves.

Mar. 28. A flower bud.

Apr. 10. A leaf - peep.

June 3. A no? " } Aug 21. A no?

Sept. 22. A no? " -

Aerides suavissimum.

5 leaves, & many withered ones.
Height to fork 7½ inches.

Pot.
Morse. 17. Nov. 1865.

Dec. 28. A leaf - peep.

1866.

4 leaves, 1 peep. Height 7½ in.

Apr. 1. 2 roots budding, high.

" A new leaf.

May 25. To a hanging pot.

June 18. A leaf - peep.

Oct. 10. A no? "

Nov. 28. Repotted.

1867

8 leaves.

Mar. 14. A flower - spike.

May 18. Flowers. (15 in all)

24. Impregn? with Aer. odor. 3.

30. Flowers done.

June 3. A leaf - peep.

July 15. A no? - "

Sept. 1. A no? - "

Oct. 8. A lateral growth.

29. A peep.

Separated from a plant by M.
Linden of Brussels. Flowered with
J. Morse in June 1865.

Imported by Mr. S. B. Low of
Clapton. Flow? with J. M. Aug. 7/64.

Vanda tricolor. 2.

7 leaves. Height to fork 3 in.
Pot.

Morse. 17. Nov. 1865.

1866.

7 leaves. Height $2\frac{3}{4}$ in.
Jan. 19. A new leaf peeps.

Apr. 15. A bud? " - "

June 18. A bud? " - "

Aug. 3. A bud? - " - "

Oct. 6. A bud? " - "

Nov. 28. Re-potted.

Dec. 14. A leaf peeps.

1867

11 leaves & 1 leaf.

April 7. A leaf peeps.

June 3. A bud? " - "

Aug. 2. A bud? - " - "

Sept. 22. A bud? "

4 $\frac{3}{4}$ in.

Cattleya Aelandia.

(Cir.) 17 lfd. 15 lfd. Bulbs.

Board.

Though low & c. April 2. 1866. 21.

Apr. 14. 3 growth-buds.

25. Fixed the board on a tile.

June 22. A new growth.

Aug. 7. A new growth (of 2nd course
of flower-spathe).

1867.

4 lbs. 20 lfd. Bulbs.

Jan. 16. A bud? "

Mar. 23. To a hanging pot.

Apr. 16. A growth. [25th 3 ditto

June 5. A flower spathe. (16 lfd. 18. 4 growths.

July 20. A flo. bud. } 27th A bud? bud.

Aug. 4. Flowers. (2 in all)

Sept. 4. 2 long lo.

Separated from a plant by
Parker of Tooting.

Epidendrum atropurpureum

1 lvs. 2 lfd. Bulbs. 2 fls. buds.

Pot.

Hugh Low & Co. 2. April, 1866. 21/1

April 13. 2 growth buds.

20. First flower open (92)

May 28. Flowers done.

Shifted.

Oct. 23. A flower-spikes

1867.

1 lvs. 3 lfd. B. 1 fls. sp.

Jan. 18. To a Wall-pot.

Apr. 27. A growth.

June 10. Flowers (2) distorted.

July 20. Flowers done.

Epid. macrochilum, album. Ho

12 lvs. 7 lfd. Bulbs.

Pot.

16. Low & Co. April 2. 1866.

April 13. 2 growth buds.

14. Re-potted.

May 10. Another growth.

16. Another do.

Oct 24. 2 flower-spikes

1867.

9 lvs. 11 lfd. B. 2 fls. sp.

Jan. 18. To a Wall-pot.

Apr. 27. 2 growths.

May 21. 4 more - " -

Houlletia Brocklehurstiana.

5 lvs. 3 lfd. Bulbs. 2 str. growths.

Pot.

Feb. Low + 6°. 2nd April, 1866. 21

May 4. A new growth. 16. L.

Aug. 4. Anst. - " -

Oct. 9. Shifted.

1867

3 lvs. 5 lfd. B. 4 growths.

Jan. 19. A fls. spathe? Shifted.

July 8. 7 growths.

Sept. 21. 2 L.

Dec. 15. 1 L.

Dendrobium Dayanum.

1. 5 lvs. 2 lfd. Bulbs.

2. 11- " 3 " "

6 growths 5 ft. buds

17. 5. 6. S.

Boards.

Feb. Low + 6°. 2nd Apr. 1866. 9.

Put on one Cork slab immediately

Apr. 25. Flowers (1 only)

8 growths in all.

May 10. Flowers done.

Oct. 17. Re-blocked, pendulous.

1867.

13 lvs. 8 lfd. Bulbs.

Jan. 19. e. Mossed.

28. 3 growths.

Feb. 10. Flower-buds.

Mar. 5. 3 more growths.

Apr. 11. Flowers. (5 in all.)

27. Flowers done.

Dec. 31. 3 growths.

Dendrobium tortile, roseum.

6 lvs. 3 lfd. Bulbs. 2 ft. buds.
Pot.

Hugh Low & Co. Apr. 2. 1866. 24.
April 17. 3 growth buds.
29. Flowers. (5 in all)
June 3. Flowers done.

1867

9 lvs. 3 lfd. Bulbs.
Mar. 5. A flower-bud.
Apr. 25. Flowers (2 in all).
May 23. Flowers done.
28. Shifted.

Dendrobium aduncum.

Cir. 15 lvs. 9 lfd. B. (6 axillary.)
Board.

H. Low & Co. Apr. 2. 1866. 9.
Removed to Cork slab, say Tile, cut
off the axillary growths, to lay beside.

1867.

4 lvs. 9 lfd. Bulbs
Jan. 3. Re-blocked.
Feb. 22. 3 growths. 1 flower-bud.
Apr. 1. Flowers (1st spike of 10 ft.)
19. " (2nd & 3rd " of 9")
May 5. Flowering done.
10. 2 new flower-spikes.
June 3. Flowers. (2 spikes of 16 ft.)
15. Flowering done.
Nov. 11. A growth.

Epidendrum erubescens.

5 yrs. 1 lfd Bulb: 1 growth.

Split Block.

Stevens's Sale. Apr. 30th 1866.

July 17. A new growth.

1867

2 lvs. 1 lfd B. 2 growths

Jan. 28. A loose.

Mar. 15. A new growth.

Apr. 22. Anot. " —

July 23. A new " from Mar. 15.

Saccolabium præmorsum.

leaves	growths	roots	Plants	
5	2	6	4	Plants - 21/
3		2		loose as imported.
3		1		Stevens's. May 14. /66.
3		1		
14.	2.	10		

Trimmed & Sprayed & Suspended in O.H.

May 22. To a hanging-jot, in shed.
Sev. outer leaves are thrown off
but 3 young leaves in shade.

25. All 4 are growing.

June 18. A new leaf peeps.

July 11. A - " - - "

13. A - " - - "

Aug. 7. A - " - - "

Oct. 28. A - " - - "

Nov. 28. Re-potted.

1867.

Leaves 6 + 4 + 3 + 1 peep. 3 Plants.

Jan. 28. A new peep. July 9. A peep.

Apr. 23. A not. " Aug. 10. Anot. - "

May 27. Anot. - " - Oct. 8. Anot. - "

June 3. Anot. - " - Nov 6. A not.

Vanda cristata.

leaves	roots		^s
6	10	5 Plants. —	26/-
6	9	Loose as imported.	
4	6	Stevens's. May 14. 1866.	
2	5		
24.	38.		

Trimmed, sponged & suspended - O. H.

May 21. To a hanging pot, in sherds.

25. a new root peeps.

26. All 5 are growing; 3 leaf-peeps.

July 11. a new leaf peeps.

23. 2 leaf-peeps.

Sept. 20. a new? peep.

Oct. 14. Anos. — " —

Nov. 28. Re-potted.

1867.

Leaves 8 + 6 + 5 + 1 peep. (3 plants)

Jan. 10. a new? peep. | Mar. 16. Anos.

April 19. Anos. — " | 23. a new?

June 17. Anos. — " | 21. Anos.

Aug. 5. Anos. — " | Sep. 16. a new?

Sept. 22. Anos. — " | Nov. 6. Anos.

1868. Dead.

Dendrobium densiflorum, Zy

lfs.	lss. B.		
1	6	3 Plants. 12/-	
1	5	Loose as imported	
	5	Stevens's May 14. 1866.	
2.	16.		

Trimmed, sponged, & suspended.

May 26. a new growth - bud. (a)

June 22. Blocked.

July 15. A new growth.

Oct. 17. Re-blocked, adding 5/- 3.

1867

5 lvs. Bulbs. (nearly dead, fan)

11 lvs. 2 lfs. B. 1 grow 1/2.

Stevens (established) Oct. 4/67.

Zygopetalum crinitum.

3 lfd Bulbs. 3 str. growths.
Pot.

Bot. of Hon. F. Egerton, Jan 6. 4866. (7/6)

July 17. A new growth.

Aug. 25. A flower - split.

Sept 11. 2 new growths.

Oct. 2. First flower (of 2)

Nov. 3. Flowers done.

1867.

1 lso. 5 lfd B. 3 growths.

Jan. 18. To a Wall-pot.

May 22. A new growth.

June 4. 2 more "

Lælia majalis.

3 lso. Bulbs. 1 gro. nly. mature
Block.

Bot. with preceding. June 7/66. (5/)

Re-blocked it immediately.

July 1. A new growth.

Aug. 25. A f

1867

4 lso. 1 lfd. Bulbs.

12 lso. 11 lfd. - " - ~~8 gns.~~ added
from Low's. 7 Jan. on 2 boards. 10/6

Mar. 9. 3 growths (Low's).

15. Shifted to a Wall-pot.

Apr. 11. 2 more growths.

27. 3 - " - " - "

Dendr. fimbriatum, oculatum.

41 lvs. Bulbs. 13 growths (4 plants)
Loose as imported. Assam)

Stevens's Sale. June 22.^d 1866.

Washed, trimmed & fastened to a
Board, without moss, immediately.

July 18. Sev. new growths

1867.

? lvs. 4 lfd. 2 terminal Bulbs

Feb. 4. United these in 1 Plt.

July 8. 16 growths.

Dend. fimbriatum, oculatum.

42 lvs. 2 lfd. 18. 11 growths (6 Plt.)

Loose as imported.

Bot. with preceding, June 22/66. 187.

Washed, trimmed, & potted in a
hanging pot, immediately on receipt.

July 18. Sev. new growths

1867.

? lvs. 3 lfd. Bulbs.

See preceding

Odontoglossum

8. 8 lbs Bulbs. small & shrivelled
Loose as imported.

Bot. with preceding, June 22/66.

Potted immediately.

1867

2 lbs Bulbs. 1 growth.

Mar. 18. Shifted.

69
Odontoglossum

6 lbs Bulbs. 1 strong growth.

Loose as imported.

Bought at Stevens' (Skinner) July 6/66.

See on

July 13. Potted in crocks.

21. A strong new growth.

Dec. 10. Potted off.

1867

5 lbs. Bulbs. 2 growths.

Apr. 30. A new growth.

May 21. A new growth.

Oct. 20. A new growth.

1868

July 6. A new growth.

1870.

Nov. 1. A new growth.

Odontoglossum

44 lvs Bulbs. 2 growths. (8 plants)

Loose as imported.

Bought with preceding, July 6. 1866.

July 13. Potted in Crocks.

19. 2 new growths.

Nov. 30. Potted off 1 of these.

Dec. 6. Potted the rest in 1 pot.

1867.

March 1 new growth.

Sept. 21. 1 " " "

1868

Apr. 25. 2 growths.

Odontoglossum

27 lvs. 1 lvs. B. 4 gro. (7 plants)

Loose as imported.

Bought with preceding.

July 13. Potted in Crocks.

20. A new growth.

21. And - " -

Nov. 3. Potted in Anderson's
compost, 8 of this lot (3, 4 - 5)
apparently identical, which have Feb.
made bulbs.

Dec. 11. Potted separate 1 of Dec. 21.

21. Shifted the rest in 1 pot.

1867.

March 30. 1 new growth (Dec. 11.)

Dec. 14. 1 fl. ? spine " -

Odontoglossum

land 28 lvs. Bulbs. 3 growths. (7 plants.

Loose as imported.

Bought with preceding three, in two lots at Skinner's sale. 40/- in toto

July 13. Potted in crocks.

1867.

Jan. 26. Potted with 1 from 3

Jan. 30. in one pot.

Feb. 13. 5 new growths.

Mar. 30. 3 - " - d.

Oct. 13. Flower ? spike.

26. 1 growth.

11.

Nov. 13. 1 growth.

Sophranitis grandiflora (longifolia). ⁷⁰

14 plants. 30 leaves; 2 growths av?

Loose as imported

Bought at Stevens's; July 21. 1866. (15/-)

July 28. Trimm'd; sponged in water, warm fastened all on Cork slab.

Another growth.

Aug. 3. Anot. - " -

17. Anot. - " -

26. 3 more " -

1867.

36 lvs. 15 lvs. B. 14 growths.

Jan. 16. 1 loss.

Feb. 2. 2 new growths.

20. The opening of a new leaf shows an advanced flower-bud.

28. 1 new growth.

Mar. 3. A lovely flower.

30. 1 growth. Apr. 4. 18 gr. in all

Apr. 29. Flower done.

May 18. 2 new growths.

Sept. 2. 1 flor. bud. 25. 1 Flower open.

Nov. 11. Flower done.

Odontoglossum

12 plants. 6 growths.

Loose as imported: small & much
withered.

Bought at Stevens's 4th Sept. 1866. 5th

Sept. 14. Trained to leaves in warm
water, with gishwash; & potted: cross

1867.

Feb. 23. 2 new growths.

Mar. 18. Shifted.

30. 13 new growths in all.

1868

Apr. 18. 6

Odontoglossum

8 plants. 6 growths.

Loose as imported: most healthy.

Bought at Stevens's. 4th Sept. 1866. 5th

Sept. 14. Treated as preceding.

Grows fast immediately.

Dec. 6. Potted off; 1 pot.

1867.

Mar. 16. 1 growth.

June 7. 2 more - " -

1868

Apr. 18. 1 growth.

Lælia

14 lvs. Bulb. 7 growths.

Loose as imported: green & healthy.

5. Bought at Stevens's, 11th Sept. 1866. 5th

Sept. 14. Treated as preceding, but
with fibrous peat intermixed.

25. Growth is manifest.

1867.

12 lvs. 3 lfd. Bulbs.

Jan. 29. This bud.

May 25. 3 growths. } Jan 5. lvs.

Jan. 1. 1873. Flowered

Lælia

Brasavola grandiflora.

8 lvs. 15 lfd. B. 3 fl. buds. 1 ripe pod.

Exchange from J. R. Tufnell. Oct. 15th/66

Oct. 16. To a Wall-pot.

Dec. 7. A bud maturing 3 flowers
damped off. Removed to H. H.

1867

6 lvs. 16 lfd. B. 2 gro. 3 fl. sp.

Jan. 30. Flowers. (4 in all)

Mar. 4. Flowers done.

April 24. 3 new growths.

May 23. 3 more — " —

June 29. 1 fl. sp. } July 21. lvs.

July 21. 1 growth.

Cattleya maxima. (Linden)

7 lbs. 1 yd. Bulb. 2 flowers (fading)
Loose.

Bought at Stevens' Oct. 11. 1866. 21/2
imported by J. Linden, Brussels, from
Cordilleras of Ecuador and Peru.

Oct. 16. Potted.

1867

7 lbs. 1 yd. Bulbs.

April 23. 2 growths.

Aug. 8. 8 flo. spathe.

Oct. 11. 1866

15 lbs. Bulbs. 2 white growths.
Crawling around root of *Rhipsalis*
from Brazil, bot. at Stevens', 30. Oct. 1866

Nov. 5. Cleansed & trimmed in
warm water. Then to Hanging
pot in crocks & live sphagnum

1867

11 lbs. Bulbs.

Mar. 21. A growth. - Shifted.

April 10. And. - 11 - 23. And.

June 4. 1 flower bud. [1867]

1 new growth.

Nov. 12. 1 " - " - "

Nasonia cinnabarina.

1 stem 5 leaves & 3 roots.

Loose.

Bot. by J.B. at a sale of Linden's plants
at Stevens's, 8th Nov. 1866. 17/-

Nov. 12. Wired to a slip of oak, and
potted in crock & sphagnum.

1867.

Helcia sanguinolenta. 72

5 lvs. B. 2 growths.

Loose.

Bot. with preced. Nov. 8. /66. 24/-

Nov 12. Potted up.

1867.

Mar. 18. Shipped.

July 6. 2 growths.

Oncidium phalaenopsis.

8 lvs. Bulbs. 3 growths.

Loose.
Bot. at Stevens; with prec. Nov. 8/66. 30/

Nov. 12. Potted.

1867

7 lvs. Bulbs. 3 growths.

Mar. 18. Shifted.

July 10. 1 growth. 1 lvs. 6. 1 knot.

Aug. 7. 1 knot. "

Oncidium cucullatum, racemosum.

1 lvs. 1 lvs. B. 1 str. growth.

Loose.

Bot. with preceding. Nov. 8. 1866. 20/

Nov. 12. Potted.

1867

Mar. 18. Shifted.

Sept. 14. 1 growth.

Lead. Dec. 1. 1869.

Oncidium phalaenopsis.

8 lvs. Bulbs. 3 growths.
 Loose.
 Bot. at Stevens; with prec. Nov. 8/66. 30/

Nov. 12. Potted.

1867

7 lvs. Bulbs. 3 growths.
 Mar. 18. Shifted.
 July 15. A growth. Aug. 6. Anot.
 Aug. 7. Anot. - "

Oncia

with purple, flowering during the w
 from the Upper Maranon

12 Ditto

1 lvs. 1 lfd. B. 1 str. growth.

Loose.

Bot. with preceding. Nov. 8. 1866. 2

Nov. 12. Potted.

1867

Mar. 18. Shifted.

Sept. 14. A growth.

Dead. Dec. 1. 1869.

A CATALOGUE.

110 Ditto
 111 Ditto
 112 Ditto
 113 Ditto

Odontoglossum species nova, with spotted bulbs, described as extra fine, with a dense bright purple flowered scape, from the Sierra Real, North Peru

6 lbs B. 4 growths.

Loose.

Bought at Stevens', with prec^s. N. 8/66.^{28/}

Nov. 12. Potted.

Dec. 6. A new growth, strong.

1867.

6 lbs. B. 4 str. growths.

Jan. 28. Shifted.

Apr. 6. A new growth.

June 23. A new growth. 30." Anor.

July 21. 2 " - D.

Aug. 1. A flower spike.

11. A growth.

Sept. 13. Anor. spike.

Oct. 7. First spike flowers (10 in all)

Dec. 24. " " - new growth.

Anguloa

62 lbs Bulbs (on 10 plants). 5 growths.

Loose as imported.

Bought at Stevens's, 24 Dec. 1866;
from New Granada. 15/-

Dec. 27. Trimmed, washed & Potted.
1867.

Feb. 23. 6 growth-buds growing.

Mar. 16. Shifted.

April 3. 4 more growths.

June 5. 14 growths in all.

Oct. 18. A new growth.

1868.

Jan. 21. A growth.

Apr. 11. A growth.

Aug. 4. A growth.

Oncidium phalaenopsis. This most lovely Orchid is the worthy pendant of the beloved *Odontoglossum phalaenopsis*, also one of our introductions. The whole plant has the same appearance as this last—same bulbs, same leaves, and same colours of the flower—but this one is still more floriferous, bearing from 5 to 7 flowers on each scape, as they are nearly as numerous as the leaves. Five distinct varieties are between the plants offered for sale. From Ecuador, at an elevation of 11,000 feet (see drawing), fine strong plant

Oncidium cucullatum racemosum, this most brilliant variety bears branched paniculas and a large crimson lip, spotted with dark purple, fine growing plant, from Ecuador

Idontoglossum

6 less B. 4 growths.

Loose.

² Bought at Stevens', with prec^s. N. 8/66. ^{28/}

Nov. 12. Potted.

Dec. 6. A new growth, strong.

1867.

6 less. B. 4 str. growths.

Jan. 28. Shifted.

Apr. 6. A new growth.

June 23. A new growth. } 30th Anor

July 21. 2 " "

Aug. 1. A flower spike.

11. A growth.

Sept. 13. Anor. spike.

Oct. 7. First spike, flowers (10 in all)

Dec. 14 " " - done flower.

Anguloa

62 less Bulbs (on 10 Plants). 5 growths.

Loose as imported.

Bought at Stevens's, 24 Dec. 1866;
from New Granada. 15/-

Dec. 27. Trimmed, washed & Potted.
1867.

Feb. 23. 6 growth-buds growing.

Mar. 16. Shifted.

April 3. 4 more growths.

June 5. 14 growths in all.

Oct. 18. A new growth.

1868

Apr. 11. A growth.

May 1. A growth.

May 1. A growth.

Lælia acuminata.

42 lbs. 8 lfd. Bulbs. 8 growths.

Board.

Bot of Low & Co. 7 Jan. 1867. 15/

Jan. 31. Re-blocked. 15 gro. in all.

April 17. 3 new growths.

June 15. 19 " " in all.

Nov. 7. 1 fl. spathe.

Lælia albida.

10 lbs. 3 lfd B. 7 flowers on 2 spikes. 10/6

In 2 Pots.

Bot of Low & Co. 7 Jan. 1867. 10/6

Feb. 21. Flowers done.

Shifted into 1 Pot.

May 14. 3 growths. } 29th Aug.

Aug. 28. 1 spathe } Sep. 10. 1 spathe.

Odontogl. hastilabium.

1 lb. 3 yd. Bulbs.

Pot.

Bot. of Low & Co. 7 Jan. 1867. 2/1.

Mar. 12. 4 growths.

33 lbs Bulbs: 3 growths 18/-

Loose as imported fr. Mexico.

Bot. at Stevens's March 18/67

Mar. 29. Shifted.

Apr. 7. 2 new growths.

74

Odont. citrosmum roseum.

17 lbs. Bulbs. 14 strong growths.

Pot.

Bought of Low & Co. 7 Jan. 1867. 2/1.

Nov. 12. 3 growths.

23. Nov. - " -

Cattleya citrina, 2.

9 lbs. 4 Gd Bulbs; 1 spathe.
Board.

Bot of Low & Co. 7 Jan. 1867. 196

Unusually large bulb, apparently
a free flowering sort.

Feb. 2 more spathes.

May 17. Bot at Dr. Pattison's Sale,
19 lbs, 4 Gd Bulbs; on board 3/6

May 21. (Low's) 1 flower (2 in all.)

28. - " - 2nd fl. opens.

June 1. - " - at growth.

29. Pot both on one board.

Flowers done.

July 30. at growth { Aug. 6. Anos.

Aug. 22. Anos. - " - { 31. at growth.

Oct. 13. Anos. - " -

Arp

20 lbs.

Loose as Imported; Mexico.

Bot at Stevens's Mar. 18. 1867. 196

Mar. 29. Potted.

Arpophyllum species, fine mass, a free blooming
dwarf variety, average length of growth 6 inches
flower spikes 3 to 4 inches long, bright red
colour, a very promising looking plant—see drawing
specimen and drawing

Odo.

40

Lo

Bo.

Mar

Apr

July

Nov

Cattleya citrina, 2.

9 lbs. 4. 1/2 Bolls; 1 spathe.

Board.

Bot. of Low & Co. 7 Jan. 1867. 10/6

Unusually large bulbs, apparently
a free-flowering sort.

Feb. 2 more spathes.

May 17. Bot. at Dr. Pattison's Sale,
19 lbs, 4 1/2 Bolls: on board. 3/6

May 21. (Low's) 1 flower (2 in all.)

28. " 2nd fl. open.

June 1. " " Growth.

29. Pot both on one board.

Flowers done.

Jan. 30. & growth { Aug. 6. And.

Aug. 22. & And. " { 31. & And.

Oct. 13. & And. " "

Arpophyllum

20 lbs Bulbs: 4 growths.

Loose as Imported; Mexico.

Bot. at Stevens's Mar. 18. 1867.

Mar. 29. Potted.

Ditto
Ditto
Ditto
Ditto
Ditto

Loose as imported: Mexico.

Bot. at Stevens's, Mar. 18/67.²⁰

Mar. 29. Potted.

April 30. 3 new growths.

July 6. 2 more " --

Nov. 10. 1 " "

Oncidium

59 lbs Bulbs: 2 growths.

Loose as imported: Mexico. 13/

Bot. at Stevens's, March 18. 1867.

Mar. 30. Potted.

May 21. 5 growths in all.

June 24. 2 more -- { July 6. 4ths. -

Oct. 17. 3 more --

1867

Mar. 29. 2 growths.

Odontoglossum nebulosum

40 lbs Bulbs: 4 growths.

Loose as imported: Mexico.

Bot. at Stevens's, Mar. 18/67.²⁰

Mar. 29. Potted.

April 30. 3 new growths.

July 6. 2 more "

Nov. 10. 1 " -- "

Oncidium

59 lbs Bulbs: 2 growths.

Loose as imported: Mexico. 13/

Bot. at Stevens's, March 18. 1867.

Mar. 30. Potted.

May 21. 5 growths in all.

June 24. 2 more " { July 6. 4 no.

Oct. 17. 3 more --

Nov. 10. 2 more --

Odontoglossum

1. After Bulb: 1 str. growth.

Blocky.

Bot. at Stevens's (Backhouse & Son's
Sale) March 21st 1867. 25/-

June 7. A new growth.

Potked.

2

Loose

Bot.

Mar.

Apr.

1. 1.

May

Collector has sent

as in hand
 ODONTOGLOSSUM UNDESCRIBED! (No. 2). See
 coloured drawing. A noble species with
 large broad petalled flowers, whitish or
 yellow? Covered with brown spots,
 mottlings. Lip whole coloured, citron yellow
 or pale orange, apparently very short
 Healthy established plant

Th. S. H.

Odontoglossum

1 After Bulb: 1 str. growth.

Blocky.

Bot. at Stevens's (Backhouse & Son's
Sale) - March 21st 1867.

25/-

June 7. A new growth.

Potted &c.

species, with branching spikes of, 100 to 150
bright orange red flowers, with yellow (or rather
red) creuated labellums! We believe this
be new, and one of the finest Orchids
Collector has sent

2

Loose

as in book 1 (No. 2). See

Bot.

coloured drawing. A noble species with
large broad petalled flowers, whitish or
yellow? Covered with brown spots,
mottlings. Lip whole coloured, citron yellow
or pale orange, apparently very short
Healthy established plant

Mar.

Apr.

May

Fl. Spike

Odontoglossum

1 lfls Bulb: 1 str. growth.

Block.

Bot. at Stevens's (Backhouse & Son's
Sale) March 21st 1867.

June 7. A new growth.

Potted.

2 lfls Bulbs: 1 growth.

Loose as imported: Ecuador.

Bot. with preceding, Mar. 21, 1867.

Mar. 29. Potted.

Apr. 27. A new growth.

May 1. Potted.

Ditt
Ditt
Ditt
Ditt
Onc

Ditt
Ditt
Ditt
Ditt
Onc

Ditt

July

ceived

Ditto
Ditto
Ditto
Ditto
Ditto

ONCIDIUM GYRIFERUM (RCHB.) This is new and evi-

marked: Ecuador. 25/ 21. 1867.

Oncidium aurosom (Rchb.) Fine establi:
plant. Same as lot 1

Ditto, very fine mass

July 20. 1867 -

nese).

Aerides quinquevulnerum.

76

12 growths: many good roots
clinging to a Basket of squared
wood, in wh. (apparently without a
particle of moss or compost) it
has evidently been grown in India.
Bot. at Stevens's, Mar. 25. 1867.
for 27/.

April 11. A leaf-peepe.

12. Anos. - "

19. Filled bkt. with sphagnum

May 7. Anos. - peepe. } 8th Anos.

June 13. Anos. - " } July 18. Anos.

21. Anos. - " } " 21. Anos.

Aug. 6. Anos. - " } 9th Anos.

Sept. 4. Anos. - " } 9th Anos.

Oct. 7. Anos. - " } 17. Anos.

1868.

Feb. 1. A peepe.

1870. Added to A. odoratum 1.

A very
100 to 12
low (or rare)
believe this
Orchids

Cattleya maxima var? This seems very diverse
in habit from the plants hitherto sold by auction
under this name. It bears four or five enormous
purple flowers on the spike; see dried specimen (house).

1. Lvs. 2. Lfd. Bulbs.

2). See of
es with up
tish or pe
a spots, a
citron yellow
very short

Loose as imported: Ecuador. 25.

Bot. with preceding, Mar. 21. 1867.

Mar. 29. Potted.

April 18. At growth.

July 20. At flower-spathe.

76
Aerides quinquevulnerum.

12 growths: many good roots
clinging to a Basket of squared
wood, in wh. (apparently without a
particle of moss or compost) it
has evidently been grown in India.

Bot. at Stevens's, Mar. 25. 1867.

April 11. At leaf-peak.

12. Anos. - " -

19. Filled bkt. with sphagnum

May 7. Anos. - peak. } 8th Anos.

June 13. Anos. - " } July 18. Anos.

21. Anos. - " } " 21. Anos.

Aug. 6. Anos. - " } 9th Anos.

Sept. 14. Anos. - " } 9th Anos.

Oct. 7. Anos. - " } 17th Anos.

1868.

Feb. 1. At peak.

1870. Added to A. odoratum 1.

Cattleya maxima (Backhouse).

1 lvs. 2 lfd. Bulbs.

Loose as imported: Ecuador. 25.

Bot. with preceding, Mar. 21. 1867.

Mar. 29. Potted.

April 18. A growth.

July 20. A flower-spathe.

76
Aerides quinquevulnerum.

12 growths: many good roots
clinging to a Basket of squared
wood, in wh. (apparently without a
particle of moss or compost) it
has evidently been grown in India.

Bot. at Stevens's, Mar. 25. 1867.

April 11. A leaf-keep.

12. Anos. - "

19. Filices bkt. with 1' haz nut

May 7. A nos. - keep. } 8th Anos.

June 13. Anos. - " } July 13. 1 nos.

21. Anos. - " } " 21. Anos.

Aug. 6. Anos. - " } 9th Anos.

Sept. 4. Anos. - " } 9th Anos.

Oct. 7. Anos. " } 17. Anos.

1868.

Feb. 1. A keep.

1870. Added to A. odoratum 1.

Burlingtonia Batemaniana.

1st lvs. 3 lfd. B.: 2 str., 1 y^g, growths
Board.

Stevens's (Linden) April 15, '67. 6/

April 19. Mossed.

May 18. A new growth.

21. Anos. — " —

June 11. Anos. — " —

Dec. 27. Dead.

Scuticaria Steelii.

38 leaves.

Out Board, rooted.

Stevens's (Linden) Apr. 15/67. 6/

April 19. Trimmed & fastened.

May 1. A growth. } 21st. Anos. — " —

29. Anos. — " — } June 8. Anos. — " —

July 2. 3 new — " — } Aug. 20. Anos. — " —

Aug. 21. Anos. — " — } Sept. 5. A flo. sp.

Oct. 3. 1 Flower. Broken off

Nov. 11. Anos. flower - bud.

Dec. 4. A growth.

Odontoglossum Hallii.

3 lvs. 1 fld. B.; 1 str. growth.

From a Pot.

Stevens's (Linden) Apr. 15/67. ⁵⁴/₁₄

April 19. Potted.

Sept. 5. A fl. spike

Odontoglossum Pescatorei.

7 lvs. Bulbs: 1 growth. ¹⁰¹/₁₀₁

Loose as imported.

Stevens's (N. Granada) Apr. 29/67. ²⁴/₂₄

May 4. Potted in broken brick.

June 3. — " — in Moor & Sphagnum

July 21. A new growth.

A wooden label attached to it;
apparently imported, marked
"O. Pescatorei".

Odontogl. triumphans, 1.

5 lbs Bulbs: (very brown.)

Loose as imported.

Stevens' (N. Granada) Apr 29/67. 22/2

Orig. label "Also something diff! I. l. m. v."

May 4. Potted in broken bricks.

10. A growth.

May 1870. Added to O. Hallii

Odontogl. triumphans, 2.

4 plants. Loose as imported. N. Granada.

Brown: short.

Green: longer

7 lbs B. 1 growth

4 lbs B. 1 gro.

7 " 1 "

6 " 1 "

2 1/2 bulbs: + growths.

Stevens' 13th May 1867. 28/2

May 17. Potted in broken bricks.

June 12. Potted in And. Compost.

July 10. A new growth.

27. Another —

2. Odontoglossum gloriosum

14 Bulbs: 1 strong growth.

Source as imported: N. Granada.

Stevens's, 13th May 1867. 26/-

May 17. Potted in broken bricks

June 12. Potted in And. compost.

July 2. A new growth.

Sept. 5. etno. " "

78 Cattleya amethystoglossa.

4 lbs. 4 lfd Bulbs. (Pot.)

Stevens's (Day) 9th May 1867. 19/-

July 1. A growth bud.

8. Cut for a back break.

Nov. 1. A fl. spathe..

Dendrob. Cambridgeanum.

5 lvs., 1 lfd. Bulbs: 1 flower.

Blocked

Stevens's (Day) May 9. 1867. 25

May 20. Re-blocked.

June 19. 2 growths } 29. Anst.

Dendrob. chrysotoxum.

9 lvs. 2 lfd. Bulbs. 2 str. growths

Blocked.

Stevens' (Day) 9. May 1867. 11

14 lvs Bulbs. Loose as imported from Moulinin. 13. May/67. 11

May 20. Anst. growth. To Wall-pot.

24. Anst. — " —

June 20. 4 — " —

Dendrob. aggregatum, majus.

8 lvs. 16 lvs. Bulbs. 1 gro. bud.
Block.

Stevens' (Day) 9th May 1867. 8/

May 22. Re-blocked.

29. at new growth.

June 10. 2 more ditto July 8. Anos.

Aug. 16. Anos. — " — 19th Anos. —

Dendrob. heterocarpum.

79

5 lvs. 5 lvs. Bulbs: 1 growth.

Block.

Stevens' (Day) 9th May 1867. 4/

May 20th Re-blocked.

Oct. 31. 7 flo. buds.

Nov. 23. at growth.

Dec. 30. Flowers. 7 in all.

Barkeria Skinneri, 2.

- 10 Crowns. Loose. Guatemala.
Stevens's 11th May; 1867. 14 1/2
May 17. Potted; hanging pot; crocks.
June 8. 14 growths. 15th 6 more.
22. 6 more - 11 -

1868.

- Jan 1. 48 lvs. 10 lvs. buds.
Feb. 12. 2 growths.
Apr. 1. 10 lvs.
May 17. 10 lvs.
June 12. 10 lvs.

Barkeria spectabilis.

- About 21 crowns: many breaks.
Loose as imported; Guatemala.
Stevens's, 11th May, 1867. 17 1/2
May 17. Potted in hang. 3 lvs; crocks.
June 8. 14 growths. 15th 2 more.
22. 1 more - 11 - 29. 2 more
July 24. 1 lvs. spathe. [Potted;]
Sept. 2. 2 - 11 - 14th Anot. sp. Dec
Oct. 7. Anot. - 11
Nov. 24. Flowers. 34 in all
1868
Apr. 14. 10 growths.
May 17. 10 growths.
June 12. 10 growths.
July 12. 10 growths.

Oncidium Sprucei

8 Plants. 18 leaves. 3 growths.

Loose as imported; Guatemala.

Stevens's. 11th May 1867.

May 18. Potted in crocks.

June 5. A new growth.

15. 2 more — " — 24. 1 more.

Dec. 12. at flower spike

Cattleya

19 lvs Bulbs. 6 Plants.

Loose as imported; N. Granada.

8/- Stevens's. 11th May 1867.

6/- May 20.th Potted in crocks.

June 7. at growth.

18. Knot — " —

Aug. 8. 3 more growths.

Oct. 17. 1 " " " "

1868 2 spathes.

Jan 20. 1 growth.

Cattleya Dowiciana.

9 lbs Bulbs. 1 growth.

Pot in crocks.

c St. Low & C. 10.th May 1867. - 20.

c June 24. & no growth.

Oncidium cebolleta

3 leaves. Loose.

Low & C. 10.th May 1867. Grati

May 18. Potted, in crocks.

24. & growth.

Cattleya

27 lbs Bulbs. 6 Plants.

Loose as imported, N. Granada.

Stevens's May 13.th 1867. 8/-

May 20.th Potted in broken bricks.

June 7. 1. growth } 18." Anos.

29. 1. Anos. - 4 - Aug. 1. Flo. spa.

Oct. 17. Anos. spathe.

1871

Jan. 17. One flower.

Pure white: lip, disk lemon
yellow, fading to white at edge.

Cattleya nivalis.

81

Cattleya

16 lbs Bulbs. 2 Plants.

Loose. N. Granada.

Stevens's 13.th May 1867. 6/-

May 20. Potted in broken bricks.

June 7. 2 growths } 18." 2 more.

July 27. Anos. - 1 - Aug. 11. c. Anos.?

Sept. 5. 1. spathe. Anos. growth.

3." Anos. spathe.

1871

Jan. 17. One flower.

Dendrobium eburneum.

5 lbs. 2 lfd Bulbs.

Basket.

c Stevens' (Pattison) 14.th May/67.^{10/-}

c May 18. Potted.

c 5 Plants. = 30 lbs Bulbs.

Bought at Stevens' 11.th June 1867. - 10/-
Moulmein.

June 14. Potted in Crocks.

July 2. 2 new growths (N^o 2)

27. 2 more " - "

Aug. 21. 1 more - " - "

Oncidium Barkeri

4 lbs. 1 lfd. B. 1 str. growth.

Basket.

Stevens' (Pattison) 14.th May/67.

May 20. Potted.

Cattleya

3 lvs. 3 lfs. Bulbs: 1 growth.

Basket.

Stevens' (Pattison) 15 May 1867. 5/-

1 lb.

1 lb.

1 lb. 1/2.

1 lb. 1/2.

Cattleya

82

1 lvs. 3 lfs. Bulbs: 2 growths.

Blo - kl.

Stevens' (Pattison) 15th May 1867. 5/-

June 30. A new growth.

Sept. 16. c & new growth.

Aerides maculosum.

3 Plants. ^{Loc. prep}
4. 1.
5. 1.
4. 2 old fls. stems

Stevens's. 13. 2 (2 Pots.)

Br Pattison's. Sale 15 May/67. 8/6

May 28. Shifted, to one Pot.

June 8. 1 new reape.

Aug. 9. 1 new " "

Sept. 24. 1 new " "

Oct. 17. 1 new " "

Dendrob. Devonianum.

8 Lvs Bulbs : 1 growth. (Slender)
Basket.

Stevens's (Pattison) May 15/67. 7/6

May 17. To a board.

June 5. 4 new growths.

Alc. Lalia (majalis) Guatem. 2.

3. found in Bark. spectab.

May 11. 1867.

J. 3 lvs 2 lvs B. 1 gro. 10. 1

1 Potted. 8/6

Jun.

Aug.

Sept.

Oct.

2 *Oncid (Cavend. ?)*

found in Bark spectab.

May 14. 1867.

1 leaf. Potted it.

June 7. 1 growth.

Cypripedium calceolus 1/3

Vancouver. 3 tubers. Oct 22. 1867.

at rest.

1867. Dec. 12. 1 gro. up.

Dendrob. Devonianum.

8 lvs Bulbs : 1 growth. (Stender)

Basket.

Stevens's (Pattison) May 15/67. 7

May 17. To a board.

June 5. 4 new growths.

NORTH EASTERN RAILWAY.

DARLINGTON SECTION.

NOTICE IS HEREBY GIVEN, that the HALF-YEARLY ORDINARY GENERAL MEETING of the SHAREHOLDERS of the DARLINGTON SECTION of the NORTH-EASTERN RAILWAY COMPANY will be held at their Offices, in NORTHGATE, DARLINGTON, in the County of Durham, on MONDAY, the 22nd day of February, 1869, at 12 o'Clock at Noon.

The Books for the Registration of Transfers will be Closed from the 3rd to the 23rd of February, both days inclusive.

(Signed)

HENRY PEASE, Chairman.

THOS. MAC NAY, Secretary.

Railway Offices, Darlington,

January 26th, 1869.

Odontoglossum

5 Plants. 6 lvs | 5 lvs. 1 gro.
5 " | 3 " 1 "
7 " | 3 " 1 "

26 lvs B. & 2 gro.

Stevens. (N. Granada) 11th June 1867. 13/

June 21. A new growth.

Aug. 28. And. — " —

Aug. 28. And. — " —

Sept 12. Potted.

1868

July 7. A flower spike

June 11. 1867

From Nicaragua

1867. Comp. the original

1867. Steins - from the bank

near the flower of

from the bank.

6 Dend. aggregatum² major

Stevens. 7 lvs B. Moulmein. Part 7. Lot 57. 9/

July Stevens. June 11. 1867. 2/6.

Aug. To brick mts. June 14.

July 23. 1868. And. — " —

Aug 16. And. — " —

Jan. Nov 2. And. — " —

1868. March 20. 2 gro.

Apr. 24. 1 "

Dend. aggreg. minus?

7 lvs. 7 lvs B. Moulmein. Part 7. Lot 57

Stevens. June 11. 67. 2/6

Potted with preceding.

1868. Jan 23. a growth.

Then 2 to 1 board. Mar 20

Saccol. curvifolium 57.

leaves. (Moulmein)

Stevens. June 11. 67. P. of 57. 2/6

Brick mts.

Aug. 2. Apepe.

Oct 16. 1 D.

1868. Sep. 14. 1 D.

Lind. Lobii

2 roots & dry stem 1867. 10/

With preceding p. of 57. 2/6

Brick mts.

Vanda? —? — 4.

Found with D. chrysanthemum from Moulmein June 11. 1867.

Broken brick.

Odontoglossum

5 Plants. 6 lbs. | 5 lbs. 1 gro.
 5 " | 3 " 1 "

26 lbs B. & 2 gro.

Stevens. (St. Granada) 11th June 1867. ¹³

June 21. A new growth.

28. Anos. — " —

Aug. 28. Anos. — " —

Sept 12. Potted.

1868

July 7. A new growth.

6 lbs Bulbs. (Nicaragua).

Stevens's. 11th June 1867.

9/.

July 23. A growth bud.

Aug. 30. Anos. — " —

1868.

Jan. 20. A growth.

Apr. 29. 1

Vanda carulea. 2.

4 plants, each with 2 leaves. Loose.

3 Stevens. (Assam) July 6. 1867. ... 1867.

July 11. Potted in crocks.

23. At keep.

Aug. 14. 2 - " - } 28. At keep

Sept. 21. 1 - " -

1868.

Feb. 17. 1 - " -

Mar. 1. 1 - " -

Pleione lagenaria.

1 Bulb of 2 leaves: from pot.

Stevens (established) July 9. 1867. ... 1867.

July 11. Potted: moss & sphagnum.

15. 2 flos. - buds.

Oct. 20. First flower, of 2.

Dec. 3. Flowers done.

Pleione maculata.

- 2 Bulbs of 2 leaves each: from pot.
Stevens (established) July 20. 1867.
July 30. 3 Flower buds.
Aug. 28. Anther. — " —
Oct. 3. Flowers. (4 in all)
Nov. 20. Flo. done (2 only)
1, root.

Pleione Wallichiana.

84

- 1 Bulb of 1 leaf. from pot.
Stevens (established) July 20, '67. 1867.
Aug. 26. Leaf (dried) detached.
Nov. 15. A growth bud.



Pleione maculata

Cattleya Mossiae. 53.

7 lvs. 12 lfd B. 5 st. growths.
Block: establ.

Stevens. Aug. 3. 1867.

Aug. 18. 1 spathe.

Oct. 15. 2 more d.^o

Nov. 1. 1 more d.^o

Dendrobium chrysanthum. 2 Sa

7 lvs. 2 lfd Buds (just made).

Block: established.

Stevens. Aug. 3. 1867.

Aug. 22. 4 flower buds.

Oct. 22. First flower, 6 in all.

2 growths.

Dec. 11. Unired to 3. 1. 7. 18.

2. Saccolabium giganteum.

6 leaves roots
 Loose as imported
 Stevens. Aug. 3. 1887.
 Aug. 8. Blocked.
 Sept. 4. 1 leaf, deep.

Lælia superbiens.

47 lbs. Bulbs. 7 growths.
 Loose, imported: Guatemala.
 18/ Stevens. Aug. 22. 1887. 14/6.
 Aug. 26. Blocked on bare board.
 Sept. 4. 3 new growth buds.

Coryanthes

16 lbs Bulbs. 2 growth buds.

Loose as imported: Chiriqui.

Stevens. Aug. 22.^d 1867. 8/-

Aug. 26. Potted in crocks.

Sept. 25. A new growth.

Oct. 22. Anos. "

25. Anos. — "

1868.

Jan. 4. Anos. growth.

Apr 10. Anos.

Odontoglossum

5 lbs Bulbs.

Loose as imported: Chiriqui.

Stevens. Aug. 22.^d 1867. 8/-

Aug. 26. Potted in crocks.

Sept. 8. A growth. | 24.^d Anos. d^o

Lycaste Skinneri

23 lbs Bulbs. 8 growths.

Loose as imported: Guatemala.

8/- Stevens. Aug. 22. 1867. 7/-

Aug. 26. Potted in crocks.

Sept. 16. 2 new growths.

Oct. 20. And. -- "

86
Epidendr. vitellinum

14 lbs Bulbs.

Loose as imported: Guatemala.

Stevens. Aug. 22. 1867. 6/-

Aug. 22. Potted in crocks.

Cattleya

5 lbs Bulbs.

Loose as imported: Guatemala. Among
the preceding Epid. vitell. overlooked.

Aug. 26. Blocked.

Cattleya

21 lbs Bulbs. 1/2 growth.

Loose as imported: Guatemala.

Stevens. 22. - Aug. 1. 1867.

Aug. 26. Potted in crocks.

Sept. 7. c. 1 spathe.

Oct. 4. A new growth.

Sept. 1. 1867.

1. Saccolabium

1 terminal } growths, green, succulent.
 2 lateral }

many living roots, thick & crowded.

Darjeeling, July 4. 1867.

Blocked immediately: naked.

July 10. Tip is growing.

21. It peeps.

Oct. 5. & side growth.

22. & new bud.

2. Cælogne cristata

12 lbs Bulbs

Darjeeling, July 4. 1867.

July 10. Potted.

Agrowth.

30. Ans. "

Aug. 24. Ans. "

3. Bolbophyllum

8 lbs joints, or pieces.

Darjeeling. 4 July 1867.

Potted in crocks.

Sept. 8. at growth.

4. Bolbophyllum

13 lbs Bulbs.

Darjeeling 4. July 1867.

Potted with former.

Sept. 8. 3 growths.

5 Dendrobium

32 lbs Bulbs. 1 growth.

Darjeeling. Sept. 6. 1867.

Potted in crocks.

Nov. 1. at new growth.

16. Nov. - " -

Dec. 4. - " - " -

88

6. Dendrobium

10 lbs Bulbs. 2 growths.

Darjeeling. Sept. 6. 1867.

Sept. 9. Bloated.

12. 1 new growth.

Nov. 6. 1 - " - D.

Dec. 16. 4 " - D.

6, 7, and 8 are all 10 lbs
specimens - 10 lbs each, not 10
in fact. a day 13. 1st,.

7. Dendrobium

4 lbs Bulbs: 1 growth.

Danjeling. 6th Sept. 1867.

Sept. 9. Pot: cracks.

Nov. 5. 2 growths.

8. Dendrobium

21 lbs Bulbs: 2 growths.

Danjeling. Sept. 6. 1867.

Sept. 9. Blocked.

Nov. 6. 10 new growths.

7. 3 flower buds.

9. Dendrobium

12 lvs Bulbs 12 growths } 2 masses
4 " " 3 " " }

Emerging. Sept. 6. 1867.

Sept. 9. Blocked.

10.

31 lvs. 4 lfd. Stems.

Emerging. Sept. 9. 1867.

Sept. 9. Blocked.

Nov. 5. c. l growth.

Dec. 2nd. Dead.

11. Cælogyne

3 Bulbs (lost cut) 1 growth.

Darjeeling. Sept. 6. 1867.

Sept. 9. Bloomed.

1872

March 6. Flowered. (C. cristata)

12. Cælogyne cristata.

3 lost Bulbs.

Darjeeling. Sept. 6. 1867.

Sept. 9. Pot: crooks.

Nov. 13. 1 growth.

13. Cælogyne

15 lbs. Bulbs. 2 growths.
Darjeeling. Sept. 6. 1867.
Sept. 9. Pot: crocks.
Oct. 22. A new growth.

14.

90

4 lbs Bulbs: 1 growth.
Darjeeling: Sept. 6. 1867.
Sept. 9. Pot: crocks.
Oct. 28. A new growth.

15. *Saccolabium*

2 Plants { ³/₂ leaves.

Durjeeling. Sept. 6. 1867.

Sept. 9. Flocked.

Sept. 10. Flocked.

Sept. 11. Flocked.

Vanda Batemanni.

6 leaves Kaperp.

Stevens (established) Oct. 4. 1867.

Oct. 1. Fotted in Crocks.

Dendrobium clavatum.

6 plants. 13 lbs. 11 lbs. Bulbs.

87. Stevens (established Oct 11. 1867. 19)
19. This & the preceding made 1 Lot, 20.

Odont. coronarium.

91

8 lbs. Bulbs. 5 str. growths.

Loose as imported: Peru.

Stevens: a Nov. 7. 1867. 24/.

Nov. 13. Potted in Moorpeat, Cocon
dunk, & Sphagnum.

16.

Nov. 6. 1867. 24/.

Cypripedium caudatum.

	crowns.	growths.
4 Plants	1	2
Loose as imp?	1	1
Peru.	0	2
	<u>2</u>	<u>0</u>
	<u>4</u>	<u>5</u>

Stevens: 7 Nov. 1867. 16/.

Var. 13. Potted in Moor, Coc. dust,
+ Sphagnum.

1869. May 25. Gave St. Ledger

Calogyne speciosa

Catasetum tridentatum

Cymbidium giganteum

- " - *aloifolium*

Ansellia Africana

Brasavola nodosa

Cypripedium venustum

Gongora fusca (Traillia)

June 14. Ditto

Gongora fusca

Stanhoea ligaria

- " - *insignis*

- " - *grandiflora*

- " - *albica*

Feb. Tuftnell.

	lss.	lfa	gro.	flg.	
5. <i>Maxillaria densa</i> -	2	3			
<i>Oncidium sphacelatum</i>	9	5			
1	4	2	1		<i>Epid. fragrans</i>
2	3		1		
3	7	3	3		dead June 1870
4	3				
5	2	2	1		To <i>Onc. ampliatum</i>
17. Stevens. (Thasias hills)					
<i>Plione Walli-hii?</i>			12		
Mar. 20. <i>Dendr. Cambridgeanum</i>	17		3		
" <i>densiflorum</i> 188x.	31	2	1		May/70. added to Bulger's
186	39				
Mar. 24. <i>Dendr. heterocarpum</i>	20	1	3		
" <i>heterocarpum</i>	16	8	1		
<i>Maxillaria venusta</i> -	4	2	5		<i>Max. rufescens</i> (in part.)
22 <i>Vanda Roxburghii</i> - - - 12/	4	roots. 17 leaves.			
" - <i>Lowii</i> (died May 22 ^d .) 8/	6	" 5	" on a growth. main leaf dead		
26. <i>Dendr. Falconeri</i> 108. 30/	13		2		
[a] 72 <i>Dendr. Falconeri</i> 8/	83	1			
<i>densiflorum</i> 217. 6/	49	1			added to Bulger's (1870)
<i>Cambridgean. 142</i>	4				
<i>heterocarp.?</i> "	5				transparens. May/70
a	7				dead Dec. 1.
b	1		3		dead Aug 30.
c	5				
d	4		2		<i>D. notile</i> fls. Mar/72
e			3		8 leaves. dead. Aug. 30
f	2				
g	4		1		dead. July 1.
<i>Dendr. 100.</i> h	3	3			
<i>Aerides</i> i	2 pl. 9 leaves				<i>A. rosea</i> (and dead 1/73)
<i>lancea</i> j	1 " 1 " "				
173	8/	10	18		<i>Bolbophyllum</i> (in part.)

1869

			7ss.	lfd.	gro.	fl.	
1 Apr. 29.	Oncid. ampliat.	Tufnell	5	1			dead
8			13	4	3		- " - } July.
2 May 22.	Dendrob. dense fl. spikes	Imp. p. Borneo	11/	28	4 pl.		D. cinnabarinum
[b.]	(62) at joints		3/	34	7 "		D. crumenatum
	9. (195) bulbous base		5/	100	27 "		
	10. (157) single fl. joints		22/		6 leaves		dead.
	Vanda Lowi	Est.	10/		5 "		
	Leptocarpus Steclii		8/	3	2	1	
	Maxill. venusta						
May 31.	Dend. Gibsoni		13/	28	2	5	fls. June 1871.
[c.]	- " - formosum		14/	15	2 pl.		
	- " - Williamsoni		20/	6		3	On block; Estab. [dead]
149. a.	Vanda						
b	Pollophyllum		10	2	2		3 pl. as a. 142. c.
c	Cymbidium		1	2	2		
d	Dendrobium		12				2 pl. (L. sulcatum)
e.	"		12		3		dead. Apr. 1871.
f.	"		1		cut off		dead. Aug. 30.
	"		14		(2 plants)		Added to a. 72.
	"				(6 plants)		Added to a. 173
June 9	Lalia cinnabarina	2/		8		1	Added to former.
[d.]	" crispilabia	2/	6	6	1		
	Vanda carulea	3/	3	lvs.		1	Added to former
	Epid. vitellinum	5/	6	4	3		" "
	Dend. clavatum	3/	8		1		" "
	dixanthum	4/	14		1	1	dead. Jan. 1873.
	crepidatum	4/	8	1	1		dead. Jan. '71
	Egertonii	4/	4		1		dead. Jan. '71
	barbatulum	4/	1		1	1	
	118. a	4/	8		2		dead. Dec. 24. 1869
	118. b	4/	10		2		dead. Jan. '71
	Sophranum grandiflor.	2/	1	3	1		dead. Jan. '71

1869

Lss. lfd. gro flo.

93

No 4 *Oncid. marginatum* ?

2, 13 1 1 juv. [dead. 1872.

d. " *Kramerianum*

6, 1 1

con l. a

" *vilipes*

5, 26 9 4

The flo. agrees better w. *Onc. nebulosum* f. *fol. Orch.*

274.

2, 6 2

274

2, 2 1 1

Calog. ochracea flo.

227

2, 1 1

dead. July 1.

17 *Cyprip. barbatum* broad var. (Moss, 3 crowns.July 7 " *Stonci*

10, 9 crowns 1 gro.

dead Mo. 1870.

Vanda Lowi

1. Stems 21. 2 fl. 8. lvs.

dead.

" *gigantea*13 *Cypripedium* con[e.] *Dendrob. nuda**Stanhopea* a.

" b.

" c.

Oncidium d.*Epidendrum* e.*Calia albida* ?*Coryanthes* g*Brassia* ? h.

i.

j.

k.

m.

Maxillaria n.27 *Epidendrum* rh

Oct. 20 Vanda naris

Nov. 3 *Septr. gr. longij*9 *Broughtonia* su*tractoch. fr. c**Epis vittata**Calia cinnabara**crispata**S. Wardii*. fl. Sept. 1871.*Onc. luridum**C. macrochil. castum**Max. rhytochila* (Gosse)

dead. Oct. 1.

*Maxill. pallidiflora**Oncid. vilipes**Krameria**Vanda caulea*

6, juv.

4 masses, on 1 block.

Dawsoniana ? green.

186,			188	1/2	gro	flo.	
June 9	Oncid. macrostachyum (?)	2/13	1	1	flower.	[dead. 1872.	
d.	" Kramerianum	6/1		1			
cont. d.	" filipes	8/26		1			Trachlo. agrost. & H. w. Onc. reticulatum f. Sol. Orch.
274.		2/6		2			
274		2/2	1	1		Calog. ochracea flo.	
227		2/	1	1		dead. July 1.	
1/	Cyprip. barbatum (var. 2 r. (Vase?) 3 counts.						
July 7	" Stonei	June 9. 1869.			no.	dead. March 70.	
	Vanda L	Dend. Egertonii				dead.	
	" gig	- " - ? (Moulmeia)	12/				
13	Cypripedium	118 { - " - crepidatum			1 gro.		
e.]	Dendrob.	- " - barbatulum					
	Stanhopea	120 { - " - brevifolium	12/			S. Wardii. fl. Sept. 1871.	
	- " -	- " - dixanthum					
	Oncidium	152 { Oncidium filipes	16/			Onc. luridum	
	Epidendrum	- " - Kramerii				C. macrochil. castum	
	Lalia albica	Epid. vitellinum				fl. Max. rhytochila (Gosse	
	Coryanthes	Dend. clavatum				dead. Oct. 1.	
	Trachia. ?	227 {	12/				
	Maxillaria	Lalia crispilabia	8/			Maxill. pallidiflora	
27	Epidendrum	- " - cinnabarina					
Oct. 20	Vanda sarrisi	274 {			in. 12 to jern.		
Nov. 3	Siphr. gr. long					1/ masses, in 1/2 blocks.	
9	Broughtonia						
1	Trachoch. fr.					G. Dawsoniana ? green.	

1869

Lss. 1/2. gro flo.

93

June 9	<i>Oncid. macroptalum</i> (?)	2/ 13	1	1	flower. [dead. 1872.
d.	" <i>Kramerianum</i>	6/ 11		1	
cont. d.	" <i>filipes</i>	5/ 26	9	4	This flo. agrees better w. <i>Onc. reticulatum</i> of Pol. Orch.
27/4.		2/ 6		2	
27/4		2/ 2	1	1	Calog. ochracea flo.
227		2/	1	1	dead. July 1.
17	<i>Cyprip. barbatum</i> broad var. (Morse)	7/6	3	crowns.	
July 7	" <i>Stonci</i>	10/	9	crowns 1 gro.	dead. Mar. - 2. 70.
	<i>Vanda Lowi</i>	8/	2 pl.	8 lvs	dead.
	" <i>gigantea</i> ?		1. - 2 "		
13	<i>Cypripedium concolor</i>	7/	12	crowns. 1 gro.	
e.]	<i>Dendrob. nodatum</i>	10/	43	(7 pl.)	
	<i>Stanhopea a.</i>	5/	11		<i>S. Wardii</i> . fl. Sept. 1871.
	" b.	2	7		
	" c.	17	16		
	<i>Oncidium d.</i>	9	2		<i>Onc. luridum</i>
	<i>Epidendrum e.</i>	12	3	2	<i>E. macrochil. castum</i>
	<i>Calia albida</i> ?	3/	6	3	
	<i>Coryanthes g.</i>	7			fl. <i>Max. rhytochila</i> (Gosse)
	<i>Brassia h.</i>	27	3		dead. Oct. 1.
	i.	4	1		
	j.	5			
	k.	29			<i>Maxill. pallidiflora</i>
	m.	2			
	<i>Maxillaria n.</i>	14	1		
27	<i>Epidendrum rhizophorum</i> . Est. 18/.	4	stems.	in.	
Oct. 20	<i>Vanda naris</i> (Beitch var.). Est. 40/	14	lvs. 1 peep.	12 to jern.	
Nov. 3	<i>Sophr. gr. longifol.</i> Lind. Imp.	2/	55	1/3	4 masses, on 1 block.
9	<i>Broughtonia Sang.</i> Bot. of Stev.	7	5	2	
	<i>Anac. tech. fr. Singapore</i>	28. Oct.	5 rhiz.	14	<i>G. Dawsoniana</i> ? green.

1870

			lvs	lfd	gro fls.	
1	Jan. 14.	<i>Oncid. ampliatum</i> (Suffr.)	5	2	1	
	Feb. 22.	" <i>Strombosianum</i> Stev. 20,	26	3	1	2 old spi.
	26	<i>Lalia</i>	5	4		
		<i>Odontog. Rossii</i> } bot. of Ch. 7/8 seen mainly by Gustand.	2	1	1	
	Apr. 9.	<i>Anæctoch. Dawsonianus</i> } 2/1				+ leaves.
		<i>Somopsis paniculatus</i> } 15/2	2	12		3 spi.
	May 16.	<i>Oncid. ampliatum</i> a.	4	1		
[f.]		" <i>cebolleta</i> b.		3	1	<i>Cebolleta major</i>
		<i>Catasetum</i> ? c. from	12		2	
		<i>Maxillaria</i> ? d. M.	11	20		fls. Mar. 19, 1872.
		<i>Sonopis</i> ? c. Suffr.	1	4		Rodrig. secunda fl.
		<i>Epidendrum</i> ? f.	5	1		dead.
		(creeping rhizome) g.		1		dead.
	20	<i>Oncid. papilio</i>	13/23	12	1	3
[e]		<i>ampliatum</i>	5		1	
[g.]		<i>Catasetum</i> a.	11		2	<i>C. integerrimum</i> h
		" b.	7			" " viscido maxim
		<i>Aerides</i> c.		3 leaves		Dead 1875.
		<i>Epidendrum</i> d.	10			Dead. 1874.
		" e apple	5	3	1	<i>E. macrochil. ros. fin</i> 3.6.73.
		" f fusiform	12	31	4	<i>Epid. ciliare</i> .
		" g <i>Lalia</i>	14	1	1	dead. Apr.
		<i>Oncidium</i> h (lge flat)	4			dead. M. h.
		" i (cone)	8			<i>Acropora armeniac</i>
		<i>Odontogloss.</i> j	16	1	4	molang. fl. 1874.
		" k (thin)	4			
		? thin. l. oval, smooth	1		1	
		<i>Oncid.</i> m. long flat	12	6	2	<i>Trichop. crispa</i> . Ap. 1874.
		<i>Theravola</i> n	3		1	<i>Oncid. Cebolleta</i> m
	Oct. 25.	2 seedling Bulbils from <i>Onc. papilio</i> , removed to Pot				
	29	<i>Cattleya Lowian</i> 2/1	7	4		dead. Apr.
		<i>Trichop. suavis</i> 1/1	13			
		5/1				2 pl. 9 stems. <i>Fernandezia robusta</i> .
	Nov. 23.	<i>Phalaenopsis Lowi</i> . Moulmein, Siam.	4 pl.	on native woe		2 of them dead?

1870

		les	lfd	gro	fl	
Dec. 3.	<i>Dend. chrysanthum</i>	8/	7	2		
	<i>Mormodes pardina</i>	8/	1	1		dead. Nov. 1875.
	<i>Saccol. curvifolium</i>	20/	13	leaves		
	<i>Dend. sp.? (Manilla)</i>	6/	6		1	(3 plants) <i>L. macrophyllum</i>
	<i>Epid. bicornutum</i>	9/	2	1		dead. Apr.

1871

Mar 11.	<i>Lasdevallia</i> 1	Stev. 28/	2	Plants	9	leaves	fl. 1870. Corin
Apr. 15.	<i>Cypriped. hookera</i>				2		
[h.]	<i>" hirsutissimum</i>	21/			2		
	<i>Inc. ampliat. majus</i>	10/	3	1	1		
	<i>Dend. Bensonia</i>	16/	5		1		flowered July 1871.
	<i>" Salconeri</i>	8/	3	2	3		
	<i>" ? Devonian? 120</i>		12	1	1		Pierardi. (fl. March 1/72.
	<i>" triadenium</i>	6/	7		5		
	<i>" M'Carthy</i>	10/	5		1		
	<i>Masdev. elaphoglossa</i> (2	28/			1		
	<i>? Bolbophyllum Moulmein</i>	Imp. 6/	26		17		

17.	<i>Odontogl. Alexandra</i>	150.	18/	9	0	3	
i	<i>Masdevallia</i> 60 (3	32/			2	3	
21.	<i>Cattleya Dowiciana</i>	13/	1	2			
j	<i>" fragrans junale, pus</i>	5/	12	lv. roots.			dead June 1871.
	<i>" Sonopsis tenera</i>						
	<i>Broughtonia sanguinea</i>	48	6				
a.	<i>Epid. Lucia</i>	8/					dead. June 1871.
b.	<i>Orcid. ? with Ferns & Mosses</i>	4	Orchids				
c.	<i>Sonopsis</i>	9	4				dead. Feb. 1873.
d.	<i>Group of 4 Orchids</i>						

May 1.	<i>Stevens. Imp. Memerara</i>						
K.	<i>Cattleya superba</i>	5.	11				
	<i>Coryanthes macrantha</i>	21/	34				fl. June 72. <i>C. maculata</i>
	<i>" Sonopsis paniculata</i>	9/		27	plants.		
d.	<i>R. guayanae secunda</i>	16	20				
	<i>" candidum</i>	6					<i>Myanthus spinosus</i> .
j.	<i>"</i>	2					

16.	<i>Stevens. Imp. N. Granada</i>		les	gro			
	<i>Masdevallia</i> 14.	26/	2	3.			<i>M. Harryana. fl. 14. 6. 73.</i>

1871

lbs lfd gro flo.

187
Aug.

1. May 22

Backhouse Son. Est.

<i>Chysis bracteatus</i>	31/6	6	2	
<i>Laelia majalis</i>	31/6	16	3	
<i>Oncid. varcodes</i>	42/	1	3	1
<i>aurosum</i>	21/	11	3	3
<i>obryzatum</i>	21/	1	5	1
<i>Teleipidium candidatum</i>	31/6		2	2
<i>Anactoch. pictola</i>	21/		6	1

23

Stevens (Veitch) Est.

<i>Oncidium hastatum</i>	12/	3	2	1
--------------------------	-----	---	---	---

Flo. Aug. 17. 1872: pro
Onc. leucostichum

27

Stevens

1.

<i>Phaius Tankervilleae</i>	7/	3	1	3
<i>Laelia albida grandifl.</i>	16/	1	6	1
<i>Dendr. infundibulum</i>	12/	6	2	2
<i>Cypripedium Stonei</i> Imp.	13/	6 pl.	7	leaves.

June 13

m.

Stevens (Moulmein. Imp.)

<i>Dend. form. giganteum</i>	16/	16		4
" <i>barbatulum</i> (Fytchianaum)	12/	22		9
<i>Phalaenopsis Wightii</i>	32/	1		
" <i>Parishii</i>	15/	2		
" <i>Lowii</i>	30/	2		
<i>Saccolab. apiculaceum</i>	22/		6	
<i>Cattleya bulbosa</i> (Brazil)	18/	14	16	7

dead. Jan. 1873.

flo. *P. Wightii* (Rich. tes)

July 14

n.

Stevens

<i>Angraecum funale</i>	a	6/	3 plants	
<i>Laelia "majalis" Est.</i>	b	14/	10	3
<i>Masdevallia</i> 5 "	c	14/		5
<i>Dendrob. ("deep red") Est.</i>	d	5/	5	2
<i>Oncid. maranthum</i> - " -	e	42/	6	1
<i>Dend. lituiflorum</i> Imp?	f	11/	117	
<i>Vanda?</i>	g		12 plants	
<i>Cymbidium?</i>	h	4/	7	1

dead. 1875.

{*L. albida*
L. purpuracea} both flo

Flo. 1874. Harryan. cari

31

Vanda C. theae

<i>Oncid. ornithoglossum</i>	Stevens	22/	4 lbs.	2 roots
<i>Antworthianum</i>	Imp.	10/	10	2
<i>Kramerianum</i>		8/	39	5
<i>Wittoria Warcewiczii</i>		10/	20	9

1871

Aug. 2

Stevens — Estab. 1

Chysis

301. 5 1
Good Orchids of 1871

Cucid

Desiderata. Sept 4. 1871.

Epider *Cattleya Dowiana*Catt *Barkeria Skinnerii*
*spectabilis*15 Stevens *Chysis aurea*Phal *Dendr. chrysanthum*Epid *crassinode*Barr *McCartiae*Cal *laurinum**Wardianum*

16 From

O.

1. *Lilia grandiflora*2. *Epidendr. brasavola*3. *crubescens*4. *myrianthum*5. *sceptum*6. *vitellinum mapus*7. *Miltonia Regnellii*8. *Mormodes igneum*9. *Oncidium Barkeri*1. *flexuosum*1. *Forbesii*1. *Rogersii*1. *Tescatorea cerina*1. *Phalaenopsis Schilleriana*1. *Sotralia macrantha splend.*1. *Lophonitis grandiflora*1. *Thunia Bensoniae*18. *Vanda caerulea**Lovii**insignis*

23/5

Labiata

*Lalia Boothiana**Cattleya Aclandiae*

6/4 4

7/6 9 5 3

1871

Aug. 2 Stevens. Estab. 1
 Chrys. 1 - 1 - 1 - 1 - 1 - 1
 Good Orchids of 1871

On Orchids not flowered.
 Jan. 31, 1871.

Epi. Miltonia Clowesii
 Ca. Horeliana

.. 1873.

15 Her. Mormodes bairdii
 Epid. rhizophorae

Ph. Dend. clavatum

Ep. Barlingh. rigida

Da. Dend. (Dec 1870)

Ca. Vanda tricolor 1

2

3

16 Bren. " suavis 1

O. 1. " " nitida

2. Dend. b. 175- crumenata (b.)

3. Cattleya latifolia (low)

4. Oncid. excavatum

5. " luridum, cult.

6. Hottelaria Boeckh.

7. Oncid. elaeagnifolium

8. Dend. dixanthum

9. " Cambridgeanum

10. " Jenkinsii

11. " Pearsonii

12. Cattl. amethystostoma

13. " maxima

14. Bulger 18-

15. " 18-

16. Oncid. phaeocephala

17. " 18-

18. Oncid. bicoloratum

19. Cattl. Denisonii

20. Phalaenopsis, Lowii

18. Lay. Oncid. maximum

21. " pulchellum

22. " ampliatum

23. B. A. Cattleya 225-

Cacimium Kramerii

Lalia Boothiana

Cattleya Aelodia

6/11 4

7/9 5 3

1871

lss lfd gro fls.

187

Aug.

May 22 Backhouse Ten. Est.

Chysis bracte

La

s Lonic. gibsoni

On

s Lilia 85

" " guianensis

" " subulifera

s " majalis Epid. ambigua

Sc

acuminata

st

albida c

s Lonic. Klugiana

Cecilia 115

23 Ster

Ono

Parkia elegans

Caloglyphus Bulger

Ucineta Humboldtii

27 Ster

Pha

Epis. crinitescens

l.

Lat

dichromum

Des

s Lonic. cerisea

Cyp

Ylva sanguinolenta

Bulger 14

June 13

Ster

Bulger 13

m.

Dena

Lonic. d. 274

"

" Phalaenopsis

Phala

Tichopiza curvis

"

s Parnassia 117

Onco. angulatum

Sacco

Caloglyphus d. 274

Cattle

Cecilia 104

coronarium

July 14 Ster

169

n.

Ang

Parnassia

Lec

4

Ma

m. l. l. l. l. l. l.

Den

Lec. 20

Onco

Disa nebulosa

Dena

Lilia crispiloba

Vino

Cym

31 Varin

Onco. v. n. n. n. n. n.

Hemiphanthia n. n.

S. r. n. n. n. n.

H. n. n. n. n. n.

Imp. 10/13 2 17

Imp. 10/13 2 9

Imp. 10/13 2 5

Imp. 10/20 2 9

1871

Aug. 2 November

C

Etabl.

Good Orchids of 1871

55

a. 142. i.

d.

c

C 149 a

c

e j

c

b

d

e

g

a

n

f.

e

b

d

g.

c

d

e

h

l

m

n

j

Nov. 3. 1866

2

2

12.

Jan. 1873.

72

mian a

c

m

m

m

Oncidium stramesi

lobata

4. 7

2

Lobelia Boottiana

6. 4

4

Catalpa baccata

16. 9

5 3

1871

Aug. 2 Stevens. Estab. 1

95

Good Orchids of 1871

0 flo. ✓ *Phalanopsis grandiflora*, 2
 6/ ✓ *Saccolabium giganteum* 2
 6/ ✓ *Oncidium macranthum*

Jan. 1873.

15 St ✓ *Sarcodes* 2
 6/ ✓ *Laelia majalis*. 2
 6/ ✓ *Vanda Cathecarti*
 6/ ✓ *Batemanii* 2

✓ *Masdevallias*. 5

16 Fr ✓ *Dendrob. Bensoniae*
 0. ✓ *McClathie*

✓ *Coryanthus macrantha*
 ✓ *Chysis bracteosa* 2
 ✓ *Limnophila*
 ✓ *Selenipidium caudatum*
 ✓ *Anaethochilus petola*
 ✓ *Phalanopsis Parishii*

72

✓ *Pavii*
 ✓ *Wrightii*
 ✓ *Luddemanniana*

✓ *Miltonia Warscewiczii*
 ✓ *Epidendr. bicornutum*
 ✓ *cnemidophorum*

✓ *Cypripedium Hookerianum*
 ✓ *hirsutissimum*

18 La ✓ *Angreum furcata*

23 Fl ✓ *Ionopsis paniculatus*
 ✓ *Oncidium Kramerii*

<i>latrata</i>	6/ 7	2
<i>Laelia Boottiana</i>	6/ 4	4
<i>Catolpa Selamiae</i>	7/ 9	5 3

1871

Aug. 2 Stevens. Estab.

<i>Chysis bractescens</i>	30/	5	1	
<i>Limniphyllum</i>	26/	14		1
<i>Oncid. sanguineum</i>	10/	3	2	
<i>carodes</i>	30/	5	1	
<i>Epidendr. tigrinum</i>	8/	8	7	3
<i>Cattleya</i> (fr. Choco).	17/	1	3	1

dead. Nov. 12.

E. ingens (Jan. 1873).

15 Stevens. (Brocas). Imp.

<i>Phalanopsis grandifl.</i>	30/	1 leaf.	2 roots.	
<i>Epid. bicornutum</i>	12/	1	3	
<i>Barbarea Skinneri</i>	12/	2	1	
<i>specabilis</i>		2	1	
<i>Coleogyne fuscescens</i>		17	5	

16 From J. G. Cockayne Esq. & Mrs. W. R. K.

O.

1. ? <i>May.</i> (long cylind. bulb.)	1	2	
2. <i>Stanhopea</i>		1	
3. <i>Sycopsis aromatica</i>	2		
4. <i>Lalia</i> ?		1	
5. <i>Cattleya</i>		1	1
6. <i>Epid. ciliare</i>			1
7. <i>Epid.</i> ?		2	
8. <i>Lalia acuminata</i> ?		1	1
9. <i>Stanhopea</i>		1	
10. <i>Cyprip. barbatum</i> gr. flor.		2	
11. <i>Cattleya</i>		2	
12. <i>Oncid. flexuosum</i>		2	
13. <i>Phajus grandifolius</i>	1	1	
14. <i>Peristaria elata</i>		2	
15. <i>Cattleya</i>		2	
16. <i>Stanhopea</i> ?		1	1
17. <i>Stanhopea</i> ?		2	

flo. May 23/72

18 Lay, Croydon. Estab.

Vanda Batemanii 7/6 6 leaves, 1/2 perisperm.

19 F. A. Haage, Erfurt.

<i>Cattleya bicolor</i>	Imp.	5	2	
<i>crispa</i>	Est.	7/	5	2
<i>-4- rosea</i>		7/6	3	2
<i>laticata</i>		6/	7	2
<i>Lalia Boothiana</i>		6/	1	4
<i>Cattleya Ailanthia</i>		7/6	9	5

1871

Tss. 2fd. gro. flo.

46

Sep. 26 Stevens. Establ.
Cattleya Mossiae superba . . . 10/ 3 4
Cypripedium Stonei . . . } 22/ 3 1
barbatum . . . } 6

Oct. 5 Stevens. Establ.

Oncidium sarcodes . . . 21/ 1 3
Phor. M. Cartwrightii . . . 16/ 3 1
Cambesigeanum . . . } 10 2
heterocarpum . . . } 18/ 7 2
Devonianum . . . } 3 1
Vanda carulea . . . 20/ 5 Stevens

Nov. 4 Stevens

Dend. Tolconeri Sub-est. 20/ 2 8
Devonianum — " — 10/ 5 2
Cyprip. hirsutissimum Estab. 12/ 5 2
Oncidium bifolium Import. 8/ 61 3 1

1872

May 24 Stevens

Pisa grandiflora. Imp? 24/ 12

28 Barkhouse Sons. Est.

Cypriped. Trapeanum (63/.) for 31/6 1
 to compensate for *Chysis bract.* of May 1871

1873

Jan. 20 Stevens. Est. imp.

Salvia majalis 2 pl. 12/ 27 3

Apr. 10 Ley, Croydon.

Est.

Warrea Lindeniana . . . 10/ 6 2 2
Oncidium flexuosum (2 plants) . . . 10/ 1 3 2
barbatum, grandifl. . . . 10/ 5 1
pictum . . . 7/ 1 1
Odont. Pescatorea . . . 10/ 6 1
Trichopilia suavis . . . 7/ 5 1
Cyprip. im. spectabile . . . 7/ 1
axiculus . . . 3/ 2

Onc. cucullaria 10/ 12

Continued in Temperature book, page 23.

1866.

April 9. Sowed seeds of *Limnæa rosea* ♀ & *Calanthe vestita* ♂.

10. The little *Agrostis* - (7.41), - but 3 crowns are left; & of these all the roots (but one or two one one), are dead so I cut them clean away, & rooted in sphagnum & rocks broken to size of hazel nuts.

30. Purchased (by comm^r) at Stevens's, *Dendrobium for-*
mosum giganteum 12/-; & *Epidendrum crubescens*, 20/-

May 14. Purch^d (by comm^r) at Stevens's, *Dendrobium densi-*
florum, 12/-; *Vanda cristata*, 26/-; & *Saccolabium premorsum*, 21/-

June 6. Bought of Hon. Capt. Egerton, Cobham, *Lyopetalum*
crinitum 7/6, & *Lalia majalis*, 7/-

22^d. Purchased (by comm^r) at Stevens's *Dendrobium fim-*
briatum oculatum (10 plants) 15/- & an unknown *Odontoglossum*
(8 bulbs) 15/-

July 2. A little house for *Odontoglossum* culture, double-
glazed, & heated from Hot-house, has just been built in contin-
uation of Greenhouse. I today removed to it as follows:-

Calanthe discolor
Cattleya amethystina
Forbesi
Soddyi

Lalia alba
anceps pot
- " - black
majalis

Calia Buergeri
Cymbidium aloifolium
Dendrobium speciosum
moniliforme

Lycaste aromatica
crucata
"Skinneri" 1
"Skinneri" true 1

Disa grandiflora
Epidendr. vitellinum 1
" " " 5/2.

Miltonia spectabilis
candida
Clowesii
Moravian

atropurpureum
macrochilum
crubescens

Maxillaria graminea
Odontoglossum grande III
Insleyi
citrosum
melitellum

Govenia superba
16 *Hartwegia purpurea*

Oncidium sphacelatum
Cavendishianum

Bletia hyacinthina
Bonatea speciosa
Cattleya citrina
Dendrob. chrysanthum
Tobralia mairanthea

Barkeria Skinneri
spectabilis
Oncidium bicallosum
Trichopilia tortilis

3.rd Collected about a dozen each of *Orchis maculata* Orch.
pyramidalis; making a 5 inch pot of each.

6.th Bought for me at Stevens's, (an importation by W. Skinner)
 13.th last night received, 40/. worth of *Odontoglossums*, of various species. (See P. 69 and 70.)

19.th Removed *Vanda carulea* to Greenhouse, close to a ventilator open night & day; I syringe it many times a day, to represent summer rains of Sylhet.

Dec. 12. We found in the peat-soil of *Cymbidium giganteum* a little two leaved bulb, abt. $\frac{1}{2}$ inch high, of what appears a *Calanthe*, wider than a self-sown seedling; which if so, must be the produce of the hybrid pod of *Lymatodia rosea* ♀, imp. by *Cal. vestita* ♂, on Dec. 19. 1865, which dehisced April 4.th 1866. We carefully rotted it off.

24. Brinckman bought for me at Stevens's Sale N. 2744, Lots 156 and 162, *Anguloa* sp.? some fine masses, 15/-

1867.

Jan. 7. I bought at Low's, as follows: —

<i>Lilia majalis</i> , (2 lots)	10/6	<i>Cattleya citrina</i> . (very fine)	10/6
" <i>acuminata</i>	15/	<i>Odontoglossum hastilabium</i>	21/-
" <i>albica</i>	10/6	" <i>citrosum</i> , <i>roseum</i>	21/-

Pipe in Apr. 1872.

Heated by Cellar Boiler 276 feet Spanish Pipes.

1865 Dec.

30. Cool Orch. continued

In good condition.

Salvia albida

" *anceps* 1

" - " - 2

Dendr. moniliforme

" *speciosum*

Cattleya citrina

Celia Bauerana

Lycaste cruenta

" *aromatica*

" *Skinneri*

Brassia Wraya

Epid. vitellinum Sk.

Sophron. grandiflora

" *cernea*

Hartwegia purpurea

Odontog. citrosomum (b. small)

pulehellum

grande Sk.

" 1. (6 new

bulbs, 3 an. very fine)

Bonatea flowering, finely

1866.

Jan. 3. Began potting; as per List.

8. *Disa grandiflora*. 4 plants, 2 of them strong. I removed the upper soil for $\frac{1}{2}$ an inch, & re-surfaced with powdered sheep-dung; cocoa-dust, & sphagnum; & silv. sark.

On all other Orchids before surfacing, I scatter a thin layer of sheep-dung powdered on the old soil.

10. The following cool Orchids to Paxton: viz. --

Trichopilia tortilis

Cattleya Skinneri

Epidendr. aurantiacum

Epidendr. vitellinum

" - *Stamfordianum*

18. Examined Bulger's. June 6th 1864. C. All mere empty skins.

25. Removed to West end of Stove, near the roof glass: --

Sophronitis grandiflora

Sophronitis cernea

27. All the remaining Cool Orchids removed from Conservatory l.

Paxton; except *Bonatea*.

March 7. The old *Phalaenopsis* (F. 50) removed to a Tile Cast Aug^t, has been suspended ever since over the aquarium behind the table in the Stove. It has long ceased to look healthy, & flattened,

85

many of the roots have decayed away. As it has begun to grow I to day removed it from the Tile, cut away all the dead roots, & affixed it by the rhizome firmly to a new Cork slab, without a bit of moss.

The specimen of the same which I brought of Morse (See T. 65), I re-blocked in exactly the same manner: the roots of this have suffered severely, having been gnawed to the core by woodlice.

Mar. 12. Following counsels of J. Anderson (G. Chr. 10.th Inst.), I repotted, level with pot-edge, in light stuff consisting of—cocoa-dust, sphagnum, pot-ashes, charcoal & a little peat, but enriched with powdered sheep-dung, — *Odontoglossa citrosimum*, *bulcheilum*, & *Inula*, & *Caloglyphus cristata*. A.T.B. To keep them moist.

15. The seed-pod of *Calanthe vestita* & *Limnorchis rosea* &, still green is decaying in the foot stalk. I cut it off, & inclosed it in an envelope to ripen. (31.st) Sowed it, being now ripe.

April 2. Received of H. Low + Co. the following Orchids:—

<i>Epidendrum atropurpureum</i>	21/	<i>Dendrobium tortile</i> (roseum)	21/
" <i>macrochilum album</i>	21/	" <i>Luganum</i>	to replace
<i>Stenotaphrum Brockhurstianum</i>	21/	"	presented
<i>Cattleya c. Islandia</i>	21/	"	aduncum

6. *Dendrobium nobile* refuses to flower. Growths form from side-joints of old bulbs; but scarcely, from base. Turned it out; found roots mostly dead; cut many out, rinsed the remainder, & repotted. Nothing seemed objectionable in the old soil or drainage.

7. *D. densiflorum*, I turned out in like manner. All the old roots here were dead; & the bulbs of half of the mass. 6 bulbs only survive; a basal growth-bud is pushing from one of them. I cut away all the dead, washed, & fastened the remainder on a cork block, with a little moss.

1865. May.

30. Removed to Paxton (without fire) from Conservatory shelf,

Dendrobium Kingianum

— " — moniliforme

Maxillaria graminea

Lycaste "Skinneri" (cruenta?

— " — *cruenta*

Epidendr. Stanfordianum

June 18. One of the tubers C (Dec. 1, '65 is up: - grassy leaf).

Examined the *Satyriums* &c. & surfaced them. Found

S. roseum 1, 2, 3

cucullatum

D. melaleuca

purpurea 2.

S. fragrans

D. purpurea

D. bartolae ? dead.

} growing.

} alive.

27. *Dendrobium formosum giganteum* has all the stems rotted at the base; but being green & sound otherwise, I cut them off above the decayed part, & laid them side by side on the sand tray in the Hot-house, to see if they will root from the joints. [1866. 3 growths broke]

30. Examined Pot "68" May 16, 1864. Found one tuber making strong roots.

July 18. *Odontoglossum grande* (7:5) seems as if it had too much sun on Conserv. shelf. I remove it into Paxton.

Many of the *Cattleyas* & other Orchids in the Paxton I removed to Hot-house, for more light, as some of them look rather drawn.

27. *Epid. crassifolium*. Ripe seed I sowed June 23^d around the foot of the parent plant. Examining it to day, I find much is alive, & the embryos plumped out so as to fill in with the tunic, measuring 110 x 100, and 90 x 80, 5000ths; bright-green.

On June 21. I bought at Stevens's, *Lalia cinnabarina* and *Epid. cinnabarinum*, for 15/-

Aug. 2. Bought at Stevens's, *Liriodendron roseum suberbum*, 3 stems, 12/-; *Stilpnia alvocaliana* 22/-; *Cattleya labiata*, 28/- and *Vanda carulea* 42/-; all from Warner's collection.

Nov. 13. *Neottia speciosa*: - as the leaves have for some time been dying off, beginning at the tips, the heart too withered, I turned it out; but finding the roots very strong & healthy, I repotted the plant.

1865.

Nov. 16. Received *Aerides affine roseum*, *A. suavisimum*, *Thaetopsis grandiflora*, *Saccolabium Blumei* Dayi, and *Vanda bicolor*: - bought of Morse for 5 guineas. (See Lett. File.)

Removed from Stove to Paxton [temp. 58°-68°] the following: -

<i>Cattl. crispa</i> 1	<i>Cattl. Trianae</i>	<i>Cattl. Leopoldi</i>
" 2	" - - -	<i>Loe. rigesii</i>
<i>latiata</i>	<i>regans</i>	<i>Lalia</i> ?
<i>amethystina</i>	<i>Mossia</i>	<i>Lycopet. MacDougl.</i>

18. Examined the Pots of 1 Sulger's Orchids.

X. Jan 4. 1864. A pair of leaves made this season, now decaying.

a. May 16 - " - 2 alive: 1 lge, double, dormant. 1 sm. making a shoot.

b. - " - " - 1 alive, stout, with sev. fresh thick roots. (Jan 23/65 Dead.

a Jan 6. " - Dead.

b (?) (b) " - 2 alive & growing well.

b. 1. " - " - sev. made leaves this sum., & are dried off.

a Dec. 1. " - Dead. No trace.

b " " - 3 growing, 1 all.

c " " - 1 growing. Nov. 27. 1866. All gone.

20. I marked with Indian Ink the growing leaf of most of the Vandoid Orchids, as a datum to observe growth.

Dec. 19. Impregnated mutually *Calanthe vestita* & *Limnopsis rosea* pollinia very small; stigmatic surface difficult to reach, & apparently little glutinous. I am not sure that I have succeeded, though in each case I left the pollinia adhering.

21. Removed *Barkeria Skinneri* to Paxton, & B. spect. 27.

25. *Lalia purpurata*: I cut the rhizome in two, places for no back-breakers.

30. Examined & recorded all the Orchids. Removed the cool ones from the high N.W. shelf of Conservatory, to the E. end of low front shelf, over the pipes. Their state is as follows.
Injured.

Trichop. tortilis. 3 new growths rotted off } from shelf over S.E. door.
Cattl. Skinneri. 2 " bulbs " " }

" *Mossia*, sup. new " - decaying. Removed to Paxton

Epid. aurantiaca. 2 new " rotting, & much of the old

" *amplicarin*. Base of leaves of new bulb rotting.

" *viridula*. 1. Several old bulbs dried up, but the new bulbs are stronger than their predecessors.

1865. April

Lycaste Skinneri
aromatica
cruenta
Bletia hyacinthoides
Maxillaria graminea
Oncid. bicallosum

Cattleya citrina
Sophron. grandif.
Epid. vitell. St.
Odont. grande
Barteria eleg.
" Skinneri
Hartwegia purpurea

Blocks.

11. Bought at Stevens' Sale, the 6.th Inst, last evening
 received:—

Ind.	Hex.	Cool.
<i>Aerides Lobbi</i> 20/	<i>Cattleya elegant.</i> 19/	<i>Lycaste Skinneri</i> 18/
<i>Saccolab. curvifol.</i> 18/	" <i>Trionci</i> 17/	<i>Salvia purpurata</i> 14/
<i>Dendr. macroph. gig.</i> 7/	<i>Gorenia superba</i> 11/	<i>Sophronitis grandif.</i> 11/

— I immediately blocked *Saccolabium* & *Sophroni.*
 tis, & spotted all the rest. (Total, £7.1.0.)

28.th *Dendrobium aggregatum*, which I bought last
 June was clinging to a round block, probably a piece of
 the branch on which it had grown in the Indian forest.
 The bark had become much decayed, so as readily to
 separate in a sheet from the worm-eaten wood, as soon as
 the binding wires were loosened; retaining sufficient
 tenacity to hold together, with care in handling, yet so
 tender as to flatten out easily. I now prepared to re-
 fix it, & on a new material. Taking a common roof
 tile (12 x 6 inches, & 1/2 inch thick) I bored a hole with a gimlet
 near one end, into wh. I fixed securely a strong loop of
 wire for suspension, & then with a file made a row of
 notches about 1/2 inch apart, along each edge, to afford
 hold for the binding wire. The tile being thus pre-
 pared, I laid it before me on the potting-bench,
 placed on it a thin layer of heat-fibre, on this a
 sprinkling of charcoal dust, & over this a layer
 of coarse moss. Thus I had a convex surface
 not quite extending to the edge of the tile on

either side. On this I carefully spread the bark of the old block, to wh. was clinging the *Dendrobium* (a mass of about 120 bulbs) with scarcely a root disturbed. Then, having a quantity of growing moss, wh. we strip off in sheets from stones, & which I always keep by me, I spread suitable bits all around the edges of the bark, covering every spot not occupied by bulbs, & firmly wired the whole, crossing & recrossing the mass with copper-thread, passing it through the notches at the edge of the tile, & bringing it round & round behind. When finished, the plant was so firm that one could not tell that it had not grown there, while the moss, when the whole was dipped in the tank & drained almost concealed the wires, & presented the appearance of a natural growth. Thus I have my plant on an imperishable block, of a porous texture, to wh. the new roots will doubtless cling, as readily & lovingly as we often find to our solicitude they do to the interior of a flower-pot, when we want to shift.

May 20. Recd. from H. Low & Co. (brought by me on 17.th Inst.)

<i>Neottia speciosa</i> 7%	<i>Dendrob. bicolor</i> 10%	<i>Oncidium barbatum</i> 10%
<i>Septotes serrulata</i> 6%	- " - <i>Dalhousianum</i> 21%	- " - <i>triquetrum</i> 5%
<i>Laelia anceps</i> 4%	- " - <i>Dayanum</i> 15%	- " - <i>Cavendishianum</i> 10%

22. Tiled *Oncid. barbatum*, *O. triquetrum*, *Dend. Dayanum*, *Opidium ovatum*, & (23rd) *D. bicolor*.

23. Removed to Paxton (without fire) from Conservatory shelf,

<i>Phajus albus</i>	}	<i>Laelia</i> — 0
<i>Odontogl. citrosimum</i>		<i>Trichopilia tortilis</i> (144.)
- " - <i>pulchellum</i>		

24. Two plants of Bulger's Orchids June 6./65, (6) are above ground; that of 31.st Aug.^r is pretty strong.

1865.

Jan. 3. Began Orchid-potting.

7. *Phajus Tankervilleae* found in poor state; all the bulbs three years old wet-rotten; & almost all the roots even of the new bulbs; yet these firm & sound. The compost I think too messy; potted in a lighter, more of fibre and peat. *Ph. Wallichii* also.

19. *Oncidium bicallosum*, bought last summer of Van Houtte, I find on potting to have almost no roots, but such as are old, & dead; as if it were an imported plant. I cut them away.

Feb. 8. *Oncidium excavatum* seems an imported plant, not yet established: found in the sheathing leaf-bases of the old bulbs, several colonies of a very pretty scale, new to me; body purplish black, with a very regular snow white marginal fringe.

March 7. *Dendrobium speciosum*, with two stout growths, I removed from W. corner of store, close to glass, to water-tray in Paxton house; in which temp. goes to about 50° at sunrise. This is, that I may now constantly water it.

April 3. Removed to S. corner of Paxton House: -

Cattleya citrina
Sophranitis grandiflora
Iselia anceps
Laelia ?
Epidendrum aurantiac.
- " - *vitellinum*

4th *Laelia albidif.*?
Cattleya Skinneri
Lycaste cruent.
Odontogl. citiosmum
- " - *grande*

Lycaste Skinneri
Trichopilia tortilis ?
Lycaste aromatica
Cyrtorchilum maculatum
Oncidium leucochilum
Odontoglossum Insteayi
Oncidium ophacelatum
Laelia Bauerana
Dendrob. speciosum (T. H. Har.)
Sobralia macrantha
Laelia Perrinii

4th All these (except *Sotr. macr.*) I exposed to three hours' gentle rain, temp. 57°

1865.

April 5. Recd. from Veitch, just imported by Mr. Skinner, *Odontogl. grande*, *Od. pulchellum*, *Epidendrum vitellinum*, *Hartwegia purpurea*, *Barteria elegans*, & *B. Skinneri*; all in most healthy condition.

6th & 7th *Od. pulchellum* spotted in sphagnum-shreds, & broken crocks, (like *Vanda*); *Od. grande* *Epid. vitellinum*, & *Hartwegia purp.* fastened to cork slabs, with sheet-moss covering charcoal-dust beneath the plants. The two *Barterias* as follows: two baskets of open wire-work, about 4 inches deep, & 6 in. wide at rim; across the mouth a lattice of slender bamboo twigs, interlaced, the ends bound down by copper-thread. On this lattice I placed each plant (consisting of 3 masses), tying it on with bass. Then in the bottom of the basket I stuffed green moss about 2 in. high, so that the plant was about 2 inches above this. Then I saturated the moss with water, to form a damp atmosphere around the plant, whose roots however do not touch the moss, unless they

8th Cool Orchids to Conservatory shelf: viz.

<i>Odontoglossum grande</i> (pot	<i>Calia albida</i> ?
" <i>ciliatum</i>	" <i>anceps</i>
" <i>Inslayi</i>	" ———
" <i>pulchellum</i>	<i>Cattleya Skinneri</i>
<i>Oncidium sphacelatum</i>	<i>Epidendrum aurantiacum</i>
" <i>leucochilum</i>	" <i>Stamfordianum</i>
<i>Calia Bauerana</i>	" <i>vitellinum</i>
<i>Dendrobium speciosum</i>	<i>Trichopilia fortilis</i> 1
" <i>moniliferum</i>	" ——— ——— 2
" <i>Kingianum</i>	<i>Phajus albus</i>
<i>Cyrtochilum maculatum</i>	<i>Calanthe discolor</i>

1864. Sept.

12. *Cattleya Skinneri* & *Calogyne cristata* I removed from conservatory shelf to cool end of Hot-house.

20.th Examined the Orchids which have been kept on the shelf in Conservatory, with damp moss between the pots, since the 17.th of March; subjected to cool treatment since Feb. 4.th Vis. *Cattleya citrina*. A good growth; bulb swelling.

Skinneri. 2 strong growths.

Calanthe vestita. 6 sm. B. - 4 very feeble growths: 2 B. dead.

Calogyne cristata. ^[See July 7] Leaves fair: bulb swelling, withered envelopes.

Cyrtorchilus maculatum. Strong growth, rather backward.

Dendrobium Farmeri. Long ago removed to Hot-house.

Epidendrum aurantiacum. 2 strong, 1 weak, - growths. good advance.

Lalia (albida?). 2 good bulbs, nearly perfected.

anceps. One healthy growth, but backward.

A One strong bulb nearly perfected; of 4 growths feeble.

Lycaste cruenta. A feeble growth.

Odontoglossum citrosimum [To Paxton some time ago] A strong growth.

Oncidium leucochilum. A strong growth; good.

" *sphacelatum* [To Paxton some 10 weeks] backward.

Sigynopsis grandiflora [To Paxton 22.nd Aug.] 2 growths pushing.

Stichopilia suavis. 2 strong growths, but backward.

Lalia Bauerana. Many strong growths: good.

Disa grandiflora. Has borne 2 flowers; I made a strong offset.

Odontoglossum grande. One strong growth; backward.

Lycaste Skinneri 1. 2 growths, looking stunted.

" " 2. - " - much worse still.

Dendrobium speciosum. Just now pushing a very stout bud.

Also since July 6.th; -

Lycaste aromatica. A moderate growth.

Epidendrum vitellinum. Moderate increase of the 3 growths.

Odontoglossum Inoleayi. [Hot-house] A strong growth.

Of the preceding, I removed
To Greenhouse.

To Hot-house, cool end;

Cattleya citrina

Cyrtorchilus maculatum

Epidendrum aurantiacum

Lalia albida

Cattleya Skinneri

Calogyne cristata

Lalia A

Odontoglossum citrosimum

Lycaste cruenta
Skinneri 1
Dendrob. speciosum
Lycaste aromatica
Calia Wauerana

Oncidium leucochilum
Trichopilia suavis.
Odontoglossum grande
Lycaste Skinneri 2
Epidendrum vitellinum
Odontoglossum Inslayi

Oct. 25. Removed *Calanthe discolor* to Conservatory.

27. Rec^d from Charles Leach Esq. a pot of *Plethia hyacinthina* dried off; & one of *Bonatea* -- sp., showing 3 bloom-buds.

Nov. 15. I impregnated *Calia Perrinii*, with the pollinia of another blossom of the same. Flowers beginning to wither, but column yet quite succulent. Anther and pollinia very small, stigmatic surface large, glutinous & remained with the utmost ease. [This failed to take].

26. The Cool Orchids named in 1st Column Sept. 20th were on the 10th Oct. transferred to Conservatory, (shelf over pipes), still packed with damp moss; temperature (night) mostly ranging between 50° and 40°. To-day I remove them to cool end of Hot-house.

Dec. 1. Just rec^d from Capt. Bulger, a small tuber (a) - "sandy soil; very handsome"; summit of one of the Simon's Town mountains, 1000 feet above sea, in coarse white sand". Potted it, apparently alive, in very sandy compost. Also two large tubers (like *Salycium*) "growing among coarse reeds in sandy soil." Put these in one 7 in. pot. Also, half a dozen or so of a little irregular tuber, "found in moist earth on the slopes of the Pearl Mountains, 1000 ft above sea." (c)

Dec. 5. Potted *Miltonia spectabilis*.

" Transferred *Dendrobium chrysanthum* to a wire basket, coiling some of the long old stems round the circumference.

14. Potted *Chysis bractescens*.

21. " *Epidendrum vitellinum*

23. " *Miltonia candida*.

~~~~~

1864, June.

Le. I purchased the following: -

- Oncid. Laurencianum*; a specimen plant } 14/-  
*Aerides odoratum*; strong plant - }  
*Paccotubium guttatum*; small. }  
*Hiltonia candida*. moderate }  
*Lycaste aromatica* - strong plant } 23/-  
*Cattleya crispa*. strong, showing flower. }  
*Vanda suavis* - small. }  
*Vanda teres* - small. - }  
*Asellia Natalensis*. strong plant - 16/-  
*Cattleya* (spec. ?) - 7/-  
*Brassia Wraya* - moderate - } 8/-  
*Cypripedium barbatum*. small }  
*Odontoglossum Inceayi*. strong, showing flower. 24/-  
*Oncidium unguiculatum*. single bulb. 10/-  
*Limnæodis rosea*. strong plant - 5/-  
*Epidendrum vitellinum*. strong plant } 11/-  
*Odontoglossum grande*. specimen. }  
*Vanda gigantea*. 2 small bits. }  
*Oncidium excavatum*. specimen. } 9/-  
*Lælia Perrinii*. strong plant. }  
*Dendrobium aggregatum*; a well-covered block } 7/-  
- " - *Jenkinsii*. a well-covered block }  
*Brasavola Digbyana*. strong. - 6/-  
*Bolbophyllum Lobbii*. a great mass. } 6/-  
*Burlingtonia decora*. a numerous mass }  
*Cattleya superba*. a strong mass, but not established. 25/-

The above, taken away by B. S. Williams, & packed by him, arrived at Southurst, July 2<sup>nd</sup> in good condition. July 6. Examined the new Orchids, & repotted *Vanda gigantea*, *Lælia Perrinii*, *Oncidium excavatum*, & *Oncid. Laurencianum* (this last in a wooden box, well pierced for

drainage; also *Hurlingtonia decoras*, consisting of many separate stems, long & straggling, with many long spreading roots, & few remote bulbs, - I blocked on a slab of cork. *Brasavola Digbyana* I added to the pot I already possessed; repotting the whole as one specimen. *Vanda* I cut into two rooted pieces, & added to the specimen already possessed.

July 7. Removed *Calogyne cristata*, scarcely growing in the cool, to the Paxton House.

29. Began to surface all the Orchids in pots, with cocoa loam, silv. sand, & peat; the terrestrial with more loam; & to remove some of the blocks.

Aug. 1. *Dendrobium moschatum* I transferred, block & all, to a pot, wedging up with shreds, & filling to a cone with cocoa & sphagnum, with a little loam & silv. sand mixed.

4. Rec<sup>d</sup> of Van Houtte of Ghent, the following:

|                                 |   |                             |
|---------------------------------|---|-----------------------------|
| <i>Epidendrum Stamfordianum</i> | } | <i>Phajus bicolor</i>       |
| <i>Oncidium bicallosum</i>      |   | " <i>maculatus</i>          |
| - " <i>aphrocelatum</i>         |   | <i>Sobralia macrantha</i> . |

16. I sent a dissected flower of "*Stanhopea venusta*," on the 9<sup>th</sup> to the Editor of Gard. Chron. for identification. He says: - "It seems to be *St. inodora*"; but I think, rather, it is certainly *St. Ruckeri*.

22. Laid up & potted 2 fine tubers *Orchis mascula*. Removed *Sephonotis grandiflora* to Paxton, as the growths are still minute. Removed to Paxton also *Disa melanocaula* & *Satyrium fragrans*.

31. Examined the Cape Orchids of June 5<sup>th</sup>. Found of a. 1 tuber sound, all in rest rotted or more skins. b. 3 and 5 alive & sound. c. 3 growing, the points about  $\frac{1}{2}$  inch above ground. d, e, f. all rotted. Nov. 11. One of b peeping.

Sept. 8. Sowed seed of *Epidendrum aurantiacum*, good & bad vars.; of *Laeliopsis* } Hybrid.  
*Broughtonia* }



1864. May.

14. Impregnated the following:

♂ Cattleya Mossiae 2.      ♀ Cattleya Mossiae 2  
♀ Cymbidium aloifolium      ♀ Laliopsis litorea.

The Cymbidium is the lowest flower on the stalk, on the left as you look at it. The Laliopsis is marked with wool. The pollinia of the Cattleya were very strongly adherent to my toothpick, with wh. I removed it, so that I could not transfer it to the stigmas without pressure. Lateral traction, wh. drew out the spiral caudicle to a great length before they yielded. The pollinia were <sup>much</sup> larger than those of the ♀ flowers.

24. Impregnated      ♂ Oncidium luridum      ♂ Oncid. flexuosum  
                                 ♀ Oncidium flexuosum      ♀ Oncid. luridum

In each case the pollinia adhered instantly by the caudicle to the tooth-pick, on the lifting of the anther, & were transferred without the least difficulty to the respective stigmas & stigmas, adhering there also on contact. The pollinia of *O. luridum* are much larger than those of *O. flexuosum*, & did not quite go into the stigmatic cavity. Of *O. luridum* it is the lowest flower; but both are marked with cotton wool.

26. Examining the stigma of the flower of *O. flexuosum* I saw it empty, as if the pollinia had fallen uselessly. I therefore removed the anther of another flower of *O. luridum*, when instantly the pollinia came away adhering to the toothpick by the viscid disk. Finding the stigma of *O. flexuosum* was too small to admit the whole, I endeavoured to crush down the pollinia in order to smear some of the in. but it stuck on the stigmatic surface; but the pollinia were hard & elastic on the stigmatic surface, so that I lost one. Then I flew from under pressure, so that I lost one. Then I severed the other from its disk, & applying it to the stigma found it would just nicely enter; so I pushed it well in, & left it. The column of the impregnated *O. luridum* has swollen & closed around the stigma.

26 Impr. ♂ Calanthe veratr.      ♂ Bletia Shepherdii  
                                 ♀ Bletia Sheph.      ♀ Calanthe veratri fol.

Bletia lowest fl. on shorter spike. Cal. v. 6<sup>th</sup> from bottom of lowest spike: (the fl. is on left side of former one).

30. Impregnated ♂ *Broughtonia sanguinea*  
♀ *Laliopsis lilacina*.

The ♂ expanded this morning; pollinia white, very minute, & readily separable from anther; very easily attached to stigma of ♀. Flower marked with blue & white threads, round the pedicel.

June 6. A box from Capt. Bulger arrived on Sat. evening (4<sup>th</sup>). containing many terrestrial Orchids. These I bottled as follows:-

a. 9. Large irreg. fleshy tuber; some forming a new growing eye beside the old stem.

" 5. B. D.

b. 7. Tuber forming successive knobs, like anemones.

" 9.

c. 21 Old tuber slender, with a plump new tuber. 9 perfect. divided into 12 of each.

d. 6. old stem from complexus of roots, a new plump tuber connected by a long neck.

e. 11 various, mostly small

f. 5 testiculate tuber. (In lucifer box)

|   |             |               |
|---|-------------|---------------|
| { | ground moor | 2             |
| { | cocoa dust  | 1             |
| { | silv. sand  | 1             |
| { | charcoal    | $\frac{1}{2}$ |
| { | loam - -    | $\frac{1}{4}$ |

Potting; - cracks  $\frac{1}{3}$  fibre: coarse moor: a compost into this the tubers were laid; then cocoa sprinkled to fill up interstices, so as to leave them visible; a layer of sheet moss over all. A shower of warm water from rose-pot. Then I placed the 8 pots under table in stove.

11. Examined, weeded, &c. the Cool Orchids: - all are new growing. Trimmed up, & thoroughly cleansed, Orchid House.

I cut off two strong growths with many roots, made near the tip of an old stem of *Dendrobium nobile* 1, & set the stump in an earthed crevice of the NW. wall of Paston.

28. At Stevens's Auction-rooms, Covent Garden there was a large sale of Orchids & other stove plants, many of them exhibition specimens; - some imported masses of *Lalia anceps* & *L. autumnalis* of enormous dimensions.

1864.

Ap. 18. After 40 hours, the impregnated Orchids show the following phenomena. *Dendr. Pierardi* & *D. densiflorum* the flower has withered & collapsed; *Cymb. aloifolium* the column is much swollen, but the floral leaves remain expanded; *Oncid. altissimum* shows no change at all except that the wings of the column have infolded.

20. *Disa melaleuca* is above-ground. I brought it out of the cellar & set it under the table in the Conservatory.

21. There is no doubt that all the Orchid flowers mentioned 16<sup>th</sup> Inst. have taken, except *Oncid. altiss.*, wh. manifests little of alteration). *C. aloif.* continues to swell the column greatly. *D. Pierardi* in this as well as the former case (Apr. 4), - the germen remains of an olive hue, whereas all the other blossoms of it have, in fading, changed the germen to a carmineous hue flushed with crimson.

*Leptotes bic.* (4<sup>th</sup> Inst) has the germen swollen to  $\frac{1}{8}$  inch. in thickness, & of a pea-green hue.

23. Put *Disa melaleuca* in the full light with the cool Orchids, on the shelf.

25. Brought *Satysrium roseum* 1 from cellar to cool Orchid shelf; just peeping. I affixed a permanent shade of tiffany over the shelf.

26. Brought the rest of the Cape *Opheodes* from the cellar. I put the whole on the lower shelf, shaded.

May 2. The Peat-slabs (See April 12) become softened by moisture, unable to maintain sufficient hold of the rails for suspension. I therefore removed *Onc. lanceanum* and potted it. Shifted  $\Psi$  1, having made many long white roots.  $\Omega$  1 and 2 both show flower-spikes. *Phajus albus* seed pod dehiscent; seeds few & barren.

4. *Cypripedium barbatum grandifl.*, a week expanded, but kept in a cool room ever since, and *Cypr. insignis* opened yesterday.

These I impregnated with each other's pollen, with

great care that in each case no particle of pollen sh.  
touch its own stigma. To this end I used different in-  
struments for the two flowers, not satisfied with any  
amount of wiping. I cut away the sepals & petals in  
part to facilitate manipulation. Darwin's book was  
before me, wh. I found very accurate for *barbatum*, (though  
I think he has "used *venustum*"); in *insigne* the form  
of the organs differs considerably. The pollen in *in-  
signe* is much more copious, & that of one anther  
was ample to smear the whole stigma of *barbatum*,  
so that I destroyed the other pollinium. Of *barbat-*  
*um* on the other hand, I used both the pollinia  
wh. are but small, to smear the stigma of *insigne*.  
The viscosity of the pollen & its colour reminded  
me of butter.

May 5. Removed Mr. Leach's *Lisa* growth from the  
shaded shelf to the sunny side of Conservatory.

16. Unpacked 2 boxes of roots (rec'd 13<sup>th</sup>) from Capt. Balzer.  
No. 3. cont. 5 tubers of a marsh Orchid, of 2 species, one yellow, the other  
lilac & purple, described in his letter of Dec. 30<sup>th</sup>. These I planted in  
one pot, marked 6b. Box No. 4. Cont. 5 8 small oblong tubers, and 6  
larger irregular tubers; one is described as a scarlet spike, the other as  
green with white "pistils & stamens". I planted them in 2 pots, the latter  
marked 6a.

For all these Orchids I used the following compost,  
Sph. turf, Cocoa, Peat, S. sand, Leaf, Chace., in equal ratios.

*Phajus albus* I transferred from the Paxton to the Cool O. Shelf.

18. Impregnated the following Orchids: -

|                                |   |                                |
|--------------------------------|---|--------------------------------|
| ♂ <i>Calanthe veratrifolia</i> | } | ♂ <i>Bletia Shepherdii</i>     |
| ♀ <i>Cymbidium aloifolium</i>  |   | ♀ <i>Calanthe veratrifolia</i> |

The *Calanthe*'s pollinia are white, thin, & minute, radiating from the  
common disk, & easily separated. The rostellum projects in the form  
of two long prominent teeth over the stigma, & under these the  
pollinia have to be pushed. Lowest flower in ~~each~~ <sup>latter</sup> case: lowest  
button of *Cymbidium*; new spike of tallest spike

1864.

April 6. Both the impregnated flowers last mentioned have drooped & are withering. Shifted *Dendrobium* no. 2. *D. Picardi* No. 1 is now a magnificent object with about 120 blossoms all out at once, exquisitely delicate & elegant. *Maxillaria Harrisonia* has flowers much larger, more expanded, & purer in colour, than last year. No. 2 too is a lovely object, strictly fragrant. By means of Lindley's "Folia Orch." I satisfactorily identify my *Epidendrum* K and L, originally from Carter H<sup>o</sup> - with *E. ovatum* of Mexico.

10. All Bulger's bulbs  $\Omega$  are started (See 20<sup>th</sup> Feb.).

12. In the autumn men being round from Dartmoor dried peat in the form of squared slabs, 7 x 5 in. & 2 in thick. They resemble cork in appearance & lightness, but on careful examination they are seen to be wholly composed of sphagnum all the parts of wh. are in many cases still perfect. It occurred to me that this w<sup>d</sup> be a nice material on which to block Orchids, if it be found to bear moisture without disintegration. Accordingly, for experiment I have today blocked *Oncid. lanceanum* from Jamaica on it.

13. Rec<sup>d</sup>? a box from the Cape, containing as follows, a present from Capt. Bulger: all in capital condition.

*Disa grandiflora*. 5 masses  
in the peat, as dug.  
- " - *barbata* - 12 tubers  
- " - *purpurea* 24 - "  
- " - *melaleuca* 3 - "

*Satyrium roseum* 24 tubers  
- " - *fragrans* 12 - "  
- " - *cucullatum* 12 - "

Of these I immediately forwarded to Charles Lach Esq; -

1 *Disa barbata*  
2 " *purpurea*

2 *Satyrium roseum*  
1 - " - *cucullatum*  
1 - " - *fragrans*

Two or three tubers were dead; the remainder I potted in  
2 pots, mostly 8 and 9 inch, in a compost of Moor-peat,  
rotted, 1; Cocoa 1, Peat dust 1, Sand bro.  $\frac{1}{2}$ , Silv.  $\frac{1}{2}$ ; Charc.  $\frac{1}{2}$ .  
with a layer of half-rotten leaves, sometimes under (a), some-  
times over (b) the tubers.

1. *Disa grandifl.*, 2; a fine compact lump, coated with moss.  
2. - " - " - 3. Broken apart; several loose tubers.  
3. - " - " - 4. a lump with several stems.  
4. - " - *purpurea*, 1. 12 Tubers (a)  
5. - " - " - 2. 9 - " (b)  
6. - " - *barbata*. - 13 - " - (b)  
7. - " - *melaleuca*. - 3 - " - (b) - In 5 inch Pot.  
8. *Satyrium roseum* 1. 5 lge } " - no leaf-mould  
4 sm. }  
9. - " - " - 2. 5 - " - (b)  
10. - " - " - 3. 4 small " (b)  
11. - " - *fragrans*. - 11 - " - (a)  
12. - " - *cucullatum* - 11 - " - (b)

Having given the whole a slight syringing with tepid  
water, I removed them to the dark cellar, to root.

15. I again sowed the *Platia* seed in the old pot.

16. Interchanged the pollen of *Dendrobium Pierardi*  
with *Dend. densiflorum*; each adhered without the least  
difficulty. In *D. d.* the same flower yielded & received; in  
*D. P.* different flowers.

Then I mutually inter-  
changed the pollen of *Cymbidium aloifolium* with *Onci-  
dium altissimum*; each adhered without difficulty; but  
the pollinia of *C. aloif.* was reluctant to quit the anther,  
when this latter was removed; I had to pull it out with a  
pin-point. In each of these cases, the same flower both  
yielded & received. In all the impregnations of  
today, I took such precautions as to be quite sure that  
there was no unintentional impregnation.

1864.

Feb. 6. Rec? from Carter & Co: 1 pkt. seed of each *Merides* the *odoratum*, & *Chalanopsis amabilis*, at 1/2. (See descriptions in notes) I sowed both, & also seed of my own *Cypripedium venustum*.

8. *Oncidium papilio majus* I removed with great care from its small decaying block; then I took another similar cylindrical log, split it, charred it, placed the plant on it, & affixed the whole to a thick slab of Cork, filling the lateral angles with charcoal dust, and green sheet-moss. Scarcely a root was bruised.

I re-sowed, in the old pots, *Laelia cinnabarina* and *Cattleya crispata* (see Apr. 4. 1863), *Bletia* (July 11) & *Dendrobium heterocarpum* (Aug. 21). *Disa grandiflora* has a sucker peeping at edge of pot.

15. *Disa grandiflora*, in very flourishing condition, I resurfaced with sphagnum & cocoa-dust.

20. Rec? from Capt. Bulger 3 bulbs of a Terrestrial Orchid ( $\Omega$ ), and the swollen fleshy bases of another kind ( $\Psi$ ) See pencil sketches. Immediately potted them as follows, obtaining a little clue to their native soils by finding attached to the withered stem of one of the former some yellow sand, & within the leaf-hollows of the latter a little fine black earth.

$\Omega$  1. (Double bulb.) Crocks one third. Loam 2; Silv. sand 2; Peat 1; Leaf-mold 1; Cocoa dust 1; Charcoal  $\frac{1}{2}$ .

" 2. Crocks  $\frac{1}{3}$ . Sphagnum & Cocoa 2; Silv. sand 1; Charc. knobs 1; Bits of bone round sides of pot.

" 3. Crocks  $\frac{1}{4}$ . Fibry loam & common sand, & a little rotten dung. Bones at bottom. Many small crocks pushed in.

$\Psi$  1. (Large base, with an offset.) Fibry Peat 2; cocoa 1; Common sand 1; Silv. sand  $\frac{1}{2}$ ; Charc.  $\frac{1}{2}$ ; Loam  $\frac{1}{2}$ ; bones beneath.

" 2. Sphagn. & cocoa; Silver sand; Lf. mold; Crocks.

Gave a slight watering to settle the composts


22. Cut a piece off the largest stem of *Phajus allius*, and having divided it into joints (11), stuck them around

The edges of a thick pot of sandy soil; the joints actually inserted in silver sand; then watered, & plunged the pot in glass case.

March 17. Removed the Cool Orchids (See Feb. 4) with the exception of *Cattl. Mossia*, & *Odontog. citreum*, to the new shelf in Conservatory, near the glass. I arranged the pots apart, & stuffed the interstices with damp moss.

The *Oncidium* I potted, without opening the basket of charred wood wh. inclosed its roots, - in sphagnum & cocoa-fibre. The tip of the flower-stalk has for some time showed disease, exuding a tenacious gum; - but a flower-spike has developed from one of the joints, wh. takes an erect position. To-day I cut back the tip to near this joint, & stopped the bleeding with a little powdered charcoal.

21. Examined the 3 hardy *Cypripediums*, viz. *C. spectabile*, *acaulis*, & a spec. (yellow); wh. have been in cool frame all winter. Found all with good buds; repotted, & placed in Conserv. on Cool Orchid Shelf.

22. *Dendrobium nobile*, 2 fruits dehiscid; from flowers fertilised just a year ago. They are ornamental, being pendent, pear-shaped, the basal half light green, the terminal rich yellow. The seed, wh. discharges copiously, is yellow. Capt. Bulger's Orchid  N. 1 is moving.

24. Sowed *Dendrob. nobile* copiously.

April 4. *Dendrobium Pierardi* and *Leptotes bicolor*, - I impregnated mutually, one flower of each, using the pollinia of the impregnated flower to impregnate the other, in each case. I effected it with great care, though without the least difficulty; the adhesion of the pollinia being immediate & complete. I also took care to see that no other blossom on either plant had lost its anther after the process was effected; that no doubt might exist of either being accidentally self-impregnated.



*Calanthe vestita*, each to the other. I had no difficulty in the operation in either case, but have little hope of success, because of the great disparity in size of the respective pollinia; those of *Calogyne* being much larger than the other.

Dec. 17. Placed the *Leptotes bicolor* (on a bit of split rod  $1\frac{1}{4}$  inch in diam?) on a slab of cork, slightly sinking it, & filling the angles on each side with charcoal dust, & a layer of growing moss.

21. Blocked *Burlingtonia venusta* on cork. *Oncidium papilio majus* has a strong growth.

23. Blocked *Oncidium crispum* on cork. *Dendrobium nobile* shows flower-buds from the old stem which bears two seed-pods.

24. Fastened the block of *Dendr. Farmeri* to a broad back of cork, mowing the margins & angles.

25 & 26. Examined & recorded condition of all the Orchids. The blossom of *Calogyne speciosa* impregnated with *Calanthe vest.* (see 30. Nov.) appears to have taken, the column & germ having considerably swelled, & continued succulent, while the rest of the flower has quite withered. [P.S. This formed a promising pod; but was unfortunately cut off by my lad, ignorant of its value.]

The flower of *Cymbid. gigant.* impregnated Oct. 7 by Zyg. Mr. Kail, produced a good pod apparently, wh. grew & looked fair to within a few days past: then it began to, i.e. yellow, & is now quite faded. The self-impregn. pod (Oct 17) still flourishes. Took away about an inch of the surface compost of *Phajus Fankerv.*, & replaced it by rotten cow-dung; then half plunged in ash pit, Paxton H.

31. Re-potted *Miltonia spectabilis* & *Zyso-petalum Martkaii*, using a little loam in the compost for the latter.

1864.

Jan. 3. *Cyprip. venustum*. One of the two pods, formed last March, is withering; I cut it. *Oncidium flexuosum*, both flower-spikes, having formed buds, almost opening, have faded off. The whole plant is looking ill; bulbs greatly thinned; I fear I have made the rest too severe, & too protracted. The leaves too have been injured by Thrips. *Rodriguezia secunda* is casting its leaves, prematurely as I fear, leaving the bulbs brown & hollow.

29. Rec? the following Orchids from Jackson & Son.

|                             |                                |
|-----------------------------|--------------------------------|
| <i>Agrostis Humboldtii</i>  | <i>Lalia anceps</i>            |
| <i>Aerides roseum</i>       | <i>Lycaste cruenta</i>         |
| <i>Brassia maculata</i>     | <i>Odontoglossum citreolum</i> |
| <i>Cattleya Skinneri</i>    | <i>Oncidium Barkeri</i> ?      |
| <i>Calogyne cristata</i>    | " <i>leucochilum</i>           |
| <i>Dendrob. moniliforme</i> | <i>Renanthera coccinea</i>     |
| <i>Sobralia dichotoma</i> . |                                |

Feb. 4. Removed to the W. corner of Store the following Orchids for cool treatment: - (Temp. during the night 44°.)

|                                    |                                |                |
|------------------------------------|--------------------------------|----------------|
| <i>Cattleya citrina</i>            | <i>Odontoglossum citreolum</i> |                |
| - " - <i>Moosia</i>                | <i>Oncidium leucochilum</i>    |                |
| - " - <i>Skinneri</i>              | - " - <i>Sphacelatum</i>       |                |
| <i>Calanthe vestita</i> (Sm. & G.) | <i>Sophronitis grandiflora</i> |                |
| <i>Calogyne cristata</i>           | <i>Trichopilia suavis</i>      |                |
| <i>Cyclochilum maculatum</i>       | <i>Lalia macrostachya</i>      |                |
| <i>Dendrobium Farmeri</i>          | <i>Disa grandiflora</i>        |                |
| <i>Epidendrum aurantiacum</i>      | <i>Odontogloss. grande</i>     | } there before |
| <i>Lalia albida</i>                | <i>Lycaste Skinneri</i> 1      |                |
| " <i>anceps</i>                    | " " 2                          |                |
| <i>Lycaste cruenta</i>             | <i>Dendrob. speciosum</i>      |                |

5. Rec? from Gaster & Co: a pot of *Calanthe discolor*. which is immediately expected.

As I walked through Mr. Low's houses at Clapton, I noticed a ripe <sup>I think Phalaenopsis</sup> pod on some Orchid (but what, I cannot recollect). He gave it me. It is full of a much twisted yellow wool, among which are some dark brown seeds. These I sowed in like manner, plunging in moss, as before.

Sept. 10. *Disa grandiflora*, presented by Charles Leach Esq. of Clapham Park; an offshoot of last season, with a strong new offshoot. It was in a 4 in pot; I immediately shifted it into a 6 in pot, the roots being strong, & coiled round the old pot. Used peat & silver sand, with a little charcoal & cocoa. Set in saucers of water in conservatory.

14.

Potted this in the usual manner, breaking the long twig to which its roots adhere, in several places, to bring it within the pot.

23. Last evening a Parcel of Orchids arrived from Para, shipped July 17.<sup>th</sup> Notwithstanding the long delay, they are in good condition, mostly, packed in charcoal. It is a poor lot, consisting of *Catasaura*

*bidentatum*, 18 masses, *Schomburgkia*

6 masses, <sup>44 bulbs,</sup> *Huntleya violacea*?, *Cattleya*

2 masses, (1 dead), *Brassia*

*Epidendrum*

1 *Bolbophyl.*

; & a small Fern

lives

alive. There are besides 220 seeds of Palms, of 3 kinds.

Oct. 7. I impregnated *Tylopetalum Mackenzii* and *Gymbidium giganteum*, - each with the other's pollen.

13. In each case the column has much swollen, compared with virgin flowers; but I see no swelling of the ovary. (It is the lowest flower in each spike.)

14. Both cases have indubitably succeeded. Of the *Tylop.* all the flowers but the impregnated one have fallen; this has dropped the lip, but the column has greatly swollen,

of the ovary has also much swollen, & it become erect.  
Of the *Cymbidium* all the flowers remain, but the impreg-  
nated one has much swollen the ovary, the angles  
of the. have become warty, & it has curved downward.  
I now impregnated a flower of this species from one of  
its own fellows.

19-22. In the new Paxton House put up several  
bunches of the lately imported *Catasetum tridentatum*;  
some on boards, some nailed to the wall, some thrust into  
pigeon holes of the Fern piers. I brought in the great  
cluster of *Schomburgkia*, & many of the small growing spe-  
cimens. Some of these I put into the Case, plunged in  
a heat of 90°; stable dung & leaves, as well as all the pots  
of Orchid seed.

Nov. 2. Rec<sup>d</sup> from Low & Co., *Vanda tricolor*, *Dendrobium*  
*formosum*, *Cattleya citrina*, *Burlingtonia venusta*.

3. Rec<sup>d</sup> from London, bought at Steens's, *Cattleya*  
*Leopoldi*, *Cattleya* *Cypripedium* and  
*Trichopilia suavis*, imported: - all which I immediately  
potted.

13. Rec<sup>d</sup> from Jeffries of Ipswich, small bits of *Cypri-*  
*pedium barbatum grandifl.*, *Cattleya Mossiae* sup., *Den-*  
*drobium Kingianum*, *Trichopilia tortilis*, *Miltonia*  
*caesioides*, *Maxillaria graminea*, *Max. tetragona*. All  
these I immediately potted. Also *Cattleya Forbesi*, which  
I added to the former specimen, re-potting the whole; &  
*Oncidium flexuosum*, which for the present I suspend  
as it is.

28. Re-potted *Vanda teres*, around a branched post,  
which I firmly fixed in the pot with wire. Used an 8  
inch perforated pot.

30. I applied the pollen of *Calogyne speciosa*, &

May 27. The growths of *Oncid. Canthug.* & *Schomburgk.* have grown on without interruption from the first day, conspicuously, as shown by marking the sheathing leaves with Indian ink. Several of the others are now seen by the same device to be moving.

28. The first flowering of a *Stanhopea* is an event. It is about 2 months since the protrusion of the bud from the large fat newly made bulb; <sup>(*St. oculata*)</sup> it has gradually grown perpendicularly downward for about 9 inches, & has developed 4 buds, wh. are 2 1/2 inches long & 1 1/4 in diameter. For several days I have been expecting the opening: this morning, when I went to breakfast I observed that of one or two, the very edge of the sepal, were just lifting. Immediately after breakfast, - viz. in about half an hour, I returned to it, & saw to my amazement, all four flowers quite fully expanded in their perfect glorious beauty. The suddenness of the expansion is something remarkable, & must make it a sight worth watching for.

July 10. A promising flower-shoot of a *Stanhopea* (n. 34) had swollen almost to bursting, when suddenly it turned off to a dingy brown hue, & I feared the worst. To day I cautiously examined it, & found the two blossoms within the spathe quite formed, but soft & rotten at the germs. They enabled me to identify the species as *S. nigricans* of Lindley's "Fol. Orch." I have doubtless erred in treatment, by keeping the basket saturated with water.

11. A capsule on the Jamaica *Plethia* ripened & burst, about a month ago. To day I examined the seed; find fully 90 per cent fertile: average dimensions in 4250 lbs; - 90 long, 18 wide. 011 40 embryos. Phenomena exactly same as March 18<sup>th</sup>.

This *Bletia* seed I sowed in 3 in. pot, plunged in another pot of tight moss, & covered with opaque plate.

July 31. Began to dry off the following: -

|                                |                               |   |
|--------------------------------|-------------------------------|---|
| <i>Epidendrum crassifolium</i> | <i>Dendrobium nobile</i>      | 1 |
| <i>Miltonia spectabilis</i>    | — " — — — " —                 | 2 |
| <i>Cyrtopodium Anderssoni</i>  | — " — — — <i>densiflorum</i>  |   |
| <i>Rodriguezia secunda</i>     | — " — — — <i>Paxtoni</i>      |   |
| <i>Oncidium papilion.</i>      | — " — — — <i>Chrysanthum.</i> |   |
|                                | — " — — — <i>Pierardi</i>     |   |
|                                | — " — — — <i>pulchellum.</i>  |   |

Brought *Cattleya Forbesii* with 2 flowers open, into the drawing-room.

Aug. 4<sup>th</sup>. At Stevens's Sale-room, Court Garden, I bought a lot of 4 *Vanda gigantea* for 12/6, & 1 *Aerides virens* (?) for 2/.

5. Looked over the fine collection of John Day Esq. at Tottenham; & that (chiefly of recent importations from Brazil & Farther India) in eight houses, of High Low 4<sup>th</sup> at Clapton: when I made a few purchases.

15. The Orchids from Low arrived; viz.

|                                |                             |
|--------------------------------|-----------------------------|
| <i>Limnopsis rosea</i>         | <i>Dendrobium Farmeri</i>   |
| <i>Oncidium papilion majus</i> | <i>Leptotes bicolor</i>     |
| " <i>crispum</i>               | <i>Cattleya amethystina</i> |

17. Potted *Cattleya amethystina* in the usual way; & the 4 plants of *Vanda gigantea*, & in 2 pots (1 and 3) of broken potsherds only. The *Aerides virens* I suspended by a wire.

21. Mr. Anderson of Uddingstone sends me seed of *Dendrob. heterocarpum*, & of *Phalaenopsis* { *amabilis* *rosea*. The former in beautiful condition, of a rich golden yellow hue, very fertile; the latter, every seed barren. I sowed both together exactly as March 18, only using sand instead of moss for the plunging material.

I hang down), & then placing a lining of compact but thin sheets of living moss, from stones, around the sides of the basket, filled the cavity with cocoa-dust & the rubbish charcoal, in layers, pressing it in rather firmly.

Apr. 4. Sowed seed of *Laelia cinnabarina*, & *Cattleya crispa*, rec? from Mr. Anderson of Reddingstone, in thumb pots plunged in mops in 5 in. pots; just as 18. March; & set both in ash-pit partly imbedded.

11.<sup>th</sup> *Cattleya* Seed (Doming's) Exam? 18 seeds from all the 4 localities; the average width is +30: in some the embryo is become quite globular, - one was 36 by 36.

16. *Maxillaria Harrisonia*. I impregnated both flowers, each with the other's pollen-masses. Though the face of the column was viscid enough, the pollinia w? not adhere readily, not indeed without being pushed hard; nor were they readily removable after the anther was lifted off. 20.<sup>th</sup> The petals & sepals have become of a creamy buff, & are now withering; the lip too has turned livid, & flaccid. The column has much changed; its upper portion has much enlarged, & the edges of the viscid disk have so swollen & closed together, that the pollinia are completely concealed. The germs never swell, but about the 23.<sup>rd</sup> shrivelled, & became brown, & fell.

28. *Cypripedium venustum*. Divided it into three plants, & repotted thus. Crocks to half: loam, leaf mould, sand, cocoa-dust, & a little peat.

29. *Stanhopea venusta*. Basketed in wire-basket; chopped sphagnum, cocoa-dust, & peat.

May 2. Rec? from Mr. R. Hill, Jamaica two small Orchids  
'No. 49' X 250'

They appear healthy; the young roots succulent. I washed them in warm water, cleansing them from scale, & cut away old



dead roots. Then laid them on dry moss in the Recess.

May 4. I blocked them on Cork.

9<sup>th</sup> Stanhopea Devonensis has formed a very small new bulb. Stanhopea 17 has 4 very small & weakly growths. Both these I repotted, the former in a 3½ in. pot (with a good mass of well-ramified new roots) the latter in a thumb-pot, cutting away all the dead bulbs. Cocoa-dust & chopped sphagnum & charcoal dust. Then I plunged both pots to the rim in the ashes of the tank bed, & covered with bell-glass. My authority for this change is "Cottage Gardener", iv. 225.

15. Cool Culture. - Removed to Conservatory

Cypripedium insigne

venustum

" - spectabile

" - acaule

Cyrtorchilus maculatum

Dendrobium speciosum

Epidendrum aurantiacum

- " - - - " (good var.)

Lycaste Skinneri

Oncidium sphacelatum

Odontoglossum grande.

16. Received from Mr. Hill, Jamaica, a large Case cont.

Brassia

B.

B.

Braz.

Lorina sanguinea, Bletia

Epidendrum fra-

grum, Ionopsis leucra, Laliopsis belacina, Onci-

dium lanceanum (from Demerara) & Oncidium

Together with some other plants & seeds.

In Chombugkia was already in the fork of a log; On-

cid. I surrounded the thick compact mass of  
root with bits of wooden hoop, charred, & bound by wire in-  
to a loose basket. Bletia I potted in a rich com-  
post. All the rest I fastened on blocks of sheet-cork,  
laying first a layer of charcoal dust, over this living  
moss, & the Orchid firmly bound over all.



scarcely less translucent than the empty endosperm. I proved that it was solid however, by bringing the compressorium about to bear on it, when I pressed out the pearly matter of the embryo. I sowed the seed thinly on the surface of the pots of *Catt. crisp.* 1, of *Catt. Mossiae* 1, & also in a thumb-pot thus furnished: - crocks 3 rows, cocoa fibre, cocon dust (old), on wh. a few bits of charcoal, bits of peat, and small crocks; having saturated this with water I shook the seed thinly on the whole & loosely covered <sup>the outer pot.</sup> with a plate of glass; then plunged the pot in a larger pot of moss wh. I shall keep saturated.

Another curious circumstance observed. Several of the seeds have projecting from one end of the envelope a linear filament consisting of a double row of nucleated cells. On pressing with a pin on the glass of the compressorium, the elasticity of the thin glass enables me to augment or lighten the pressure by turns. As I did this, the embryo worked to & fro in the envelope, & as it did so projected & retracted the jointed filament, wh. was now seen to be a process of the embryo itself, as in fig. 3; & as I suppose, the radicle.

The next day I sowed another thumb-pot precisely in the same way, & like the former plunged in a 5 in. pot of rammed moss, with a layer of living moss on the surface of both; but thinly over the seed. This latter I plunged into the ashes of the tank-bed.

March 20. Impregnated several flowers of *Dendrob. nobile*. It is nearly off bloom, but some of the flowers were, I think, available. *Cypr. venustum* I also did, but less hopefully, from its age.

March 21. One of the growths of *Conopsea* *pan.*  
about 4 inches high, I cut off with a clean cut,  $\frac{1}{2}$  inch  
above the base. Apr. 16. A new growth from the stump.

23. I attempted to impregnate the two terminal  
flowers of the panicle of *Conopsea pan.*; but found great difficulty  
from the minuteness of the parts, & the non-adhesiveness of  
the stigma, perhaps from age. I am not sure that I succeeded.

*Mormodes* 8, & *Brassia* 33. These I selected for experi-  
ments with manure. I gave each a watering with guano, of  
less than half the strength that I have used for *Ston-plants*. I  
added also *Pleurothallis* (42).

25. *Dendrobium nobile* 1. Repotted. Found the  
old peat soft & spongy, & the somewhat slender roots of  
the plant abundant. Used  $\frac{2}{3}$  good Crocks, & the rest wholly  
cocoa fibre with some cocoa dust, & a little sphagnum.

Impregnated one of the unexpanding flowers of *Epidend.*  
*aurantiacum*, & one of *Conopsea paniculata*.

28. *Cattleya* Seed. Examined specimens of the seed  
from each of the pots, after 10 days' sowing, comparing them with  
specimens from what is left in the packet. The embryo has  
become opaque & much plumper, so that while the length  
of the enveloping coat remains unaltered, (viz. 70-80 500ths in.)  
the transverse diam. has much increased. Out of nearly 20 meas-  
ured, the average diam. was 26, ranging from 23 to 31; while the aver-  
age of the unsown was little more than 16, ranging from 11 to 20. I  
see no trace of the cellular filament.

30. Impregnated 3 flowers of *Dendrob. densiflorum*.  
The anther flies forward by means of the long elastic filament  
exactly as Darwin describes it in *D. chrysanthum*.

April 2. *Aerides odoratum* has been since Nov. last  
in a wire-basket of very loose mesh, with the cavity  
filled in with loose moss. To-day I removed this  
moss, narrowed the meshes by interlacing fine copper  
wire, (without disturbing the long roots, wh. protrude

Jan. 9. Dendrobium pulchellum No. 1, p. 4. This has not been repotted since I received it last March. Many of the bulbous stems have subordinate bulbs with great clusters of aerial roots, & some of these secondaries are branched & are again rooting. The plant has also made several stout primary bulbs this last season, wh. are green & leafed. In potting now, I separated all the aerial-rooted bulbs, & planted them superficially around the main plant. The latter I cleared well of the old peat & sphagnum, & potted the whole in fresh spongy peat, with a large proportion of cocoa refuse, & a good deal of charcoal, knobs of dust.

#### Orchids on Blocks.

Jan. 19. L. Dendr. moschatum, & D. Pierardii. Each with a great tangled mass of roots on old blocks. The former I allowed to remain, the latter I re-blocked on a flat oblong piece of 2 in. x 1 in. thick Cork. In each case I introduced several tea-spoonfuls of Charcoal-dust among the roots, & covered them with the same, then wiring over all a layer of green moss, to keep the dust in its place.

And so in turn with all the Orchids on blocks.

Ceologyne speciosa has numerous short twiggy roots.

Calanthe grossum grande has few thick white fleshy - "

Phajus Tankervilleae. (See page 5.)

Feb. 26. Lalia purpurata, L. Perrinii, Epid. auranti-  
acum, Dendr. chrysanthum, Cyrtopodium Andersoni, -  
re-potted. Used two-thirds crocks, matted roots from  
peat, a little cocoa-fibre: then put in the plant, the long  
fleshy roots reaching down among the crocks. Then I  
worked in carefully knots of soft spongy peat, Char.  
coal-dust & bits, small crocks, & handfuls of Cocoa re-  
fuse; keeping the bulbs well elevated, & finishing off  
the hillside with cocoa. After syringing, I let the pots  
stand a day, & then smooth & shape the surface, com-  
pacting it also by gentle pressure of the hand.

Thajus albus. To this I gave the terrestrial com-  
post; viz. leaf-mould, a little rotten dung, sand, & some  
fibry loam, mixed with cocoa waste, & much less depth  
of drainage crocks.

March 2. Oncidium flexuosum. Repotted. Two-thirds  
crocks: then cocoa-fibre, (with some <sup>cocoa</sup> dust adhering) & sphag-  
num loosely mixed, but chiefly the former: this I work-  
ed in among the long roots, adding a few bits of spongy  
peat, some charcoal-dust & knots, & a few crocks: as  
usual, faced the hillside with cocoa-refuse. I  
bent round (partly breaking) the rhizome, so as to train  
the chain of bulbs spirally, tying them to sticks.

Mar. 18. c. W. Dominy called & showing me a large  
pod, told me that it was the hybrid progeny of Castilleja  
intermedia & C. latifolia. The seed, like fawn-  
coloured powder was issuing from it, of wh. he  
gave me a pinch. Under the microscope it  
appeared as represented here; the embryo large, oval, and

186

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# Notes on culture.

1863.

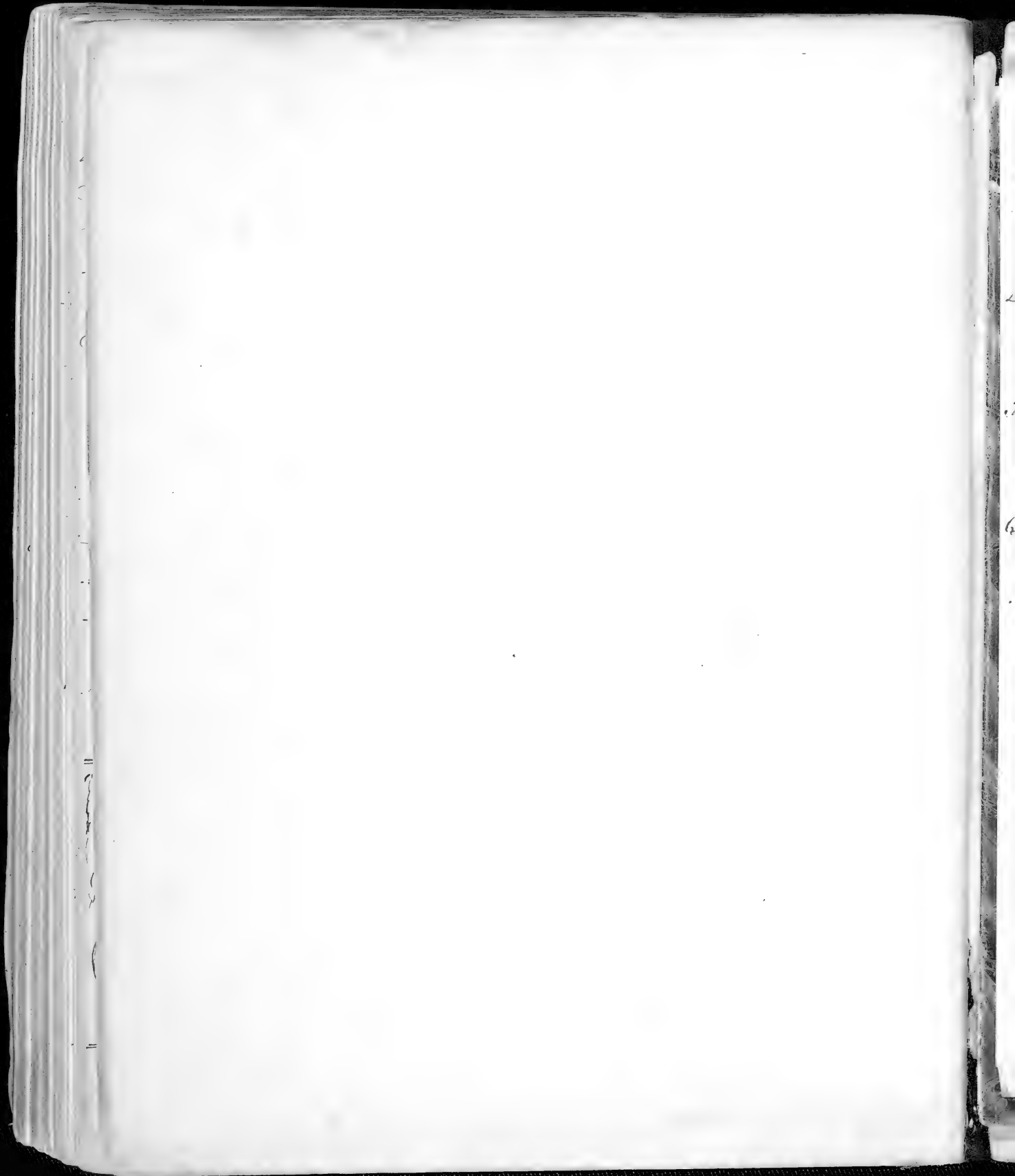
Jan. 7. 8. *S. D. ...* This, when received, consisted of about 13 bulbs, whose normal size seems to be about that of Fig. i. On repotting I found the whole dead & dry, except two, wh. though much shrivelled & slender, were yet green, - & a small very feeble offset from each of these, as Fig. ii.

I sent away all the dead bulbs, leaving only the rhizome. It had been thoroughly imbedded in dense peat, wh. filled the pot, except that about 3 small potsherds were at the bottom.

I sent away the dead roots, & two shins - filled a clean pot, with clean potsherds, put a layer of dead peat-fibre on them, a layer of cocoa-refuse, & small lumps of very spongy peat, mingled with small charcoal. Immediately under & about the roots, I shook in a liberal quantity of charcoal-dust, & put over all a thin layer of cocoa-refuse, to finish off the hillock; on wh. the plant now rests. Then I gave a syringing of water at 65° to settle all, & when drained, smoothed off, & pressed into shape.



Jan. 8. *Dendrobium nobile*, No. 1. p. 4. Has forward flower-buds, & several new growth-buds. Cott. Gardener forbids me to repot yet; but I removed one or two bits of the old surface peat, shook charcoal-dust into the hollows around the bulbs, & over some of the exposed roots, & then put a layer of cocoa-refuse over the whole hillock. Henceforward I keep it regularly watered.



*Vanda Batemanoni*  
Onc *cœrulea*  
*crislata*  
*Cathcarti*  
22. *gigantea*  
*suavis* 1  
" - *Vaitehi*  
*tricolor* 1

Lace

" 3  
*Roxburghi*  
*teres*

Frid

✓  
a. 142. j.  
c. 149. a.  
n. 9  
1 Bulger 15.  
g. c

Que

*Lysopetalum Macklayi*

*Catasactum interced. lux.*

" *pas.*  
f. c.

*ochraceum*

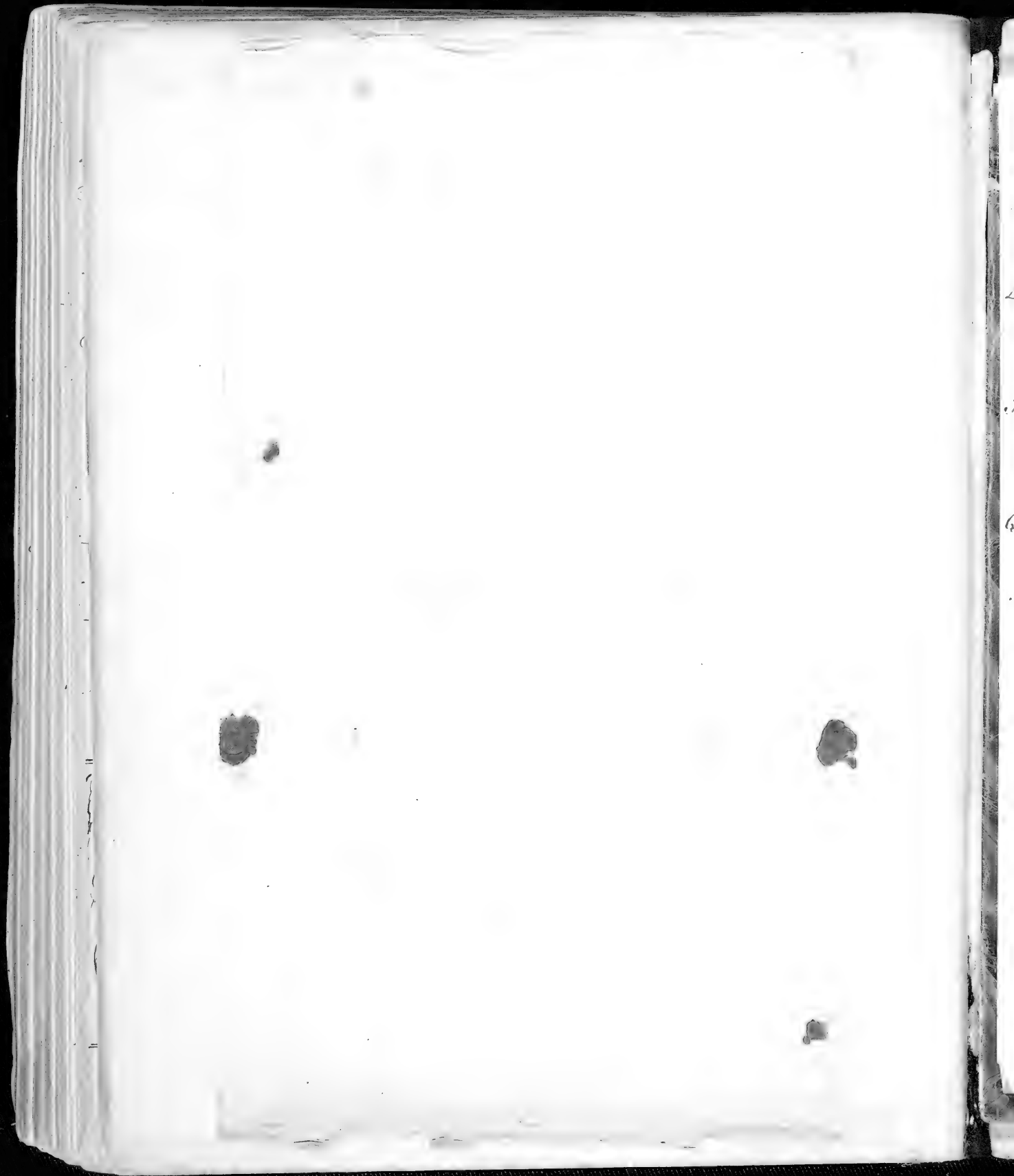
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*Oncidium altissimum* 1  
" *Laurenceana*

*Teristeria elata*  
P1

91

22.

Lace

Fria

Wien

B

B

B

B

el

1900-1-5

10

1999

1000

*Oncidium altissimum* 1 *Peristeria elata*  
" *Laurencean* *Phajus maculatus*

22. Ac. 2, Gaddington Terrace,  
Aa King William St, Greenwich.  
February 26<sup>th</sup> / 1880.

Trid. A. Dear Sir,  
I hope you will approve

Ques.

269  
53

3. them and trust they will  
not get injured in travelling  
4. The basketmakers house  
at the corner of Covent Garden  
5.

fragrans  
rigida  
in the vestibula

*Calogyne cristata*  
*fuscescens* 1  
" 2  
*Ochraea*  
*Bulbo*

*Oncidium altissimum* 1 *Teristeria elata*  
*Phaius maculatus*

22. Ac 2, Claddington Terrace,  
 Ho King William St., Greenwich.  
 Lact February 26<sup>th</sup> / 68.

Fri. A Dear Sir

W. I hope you will approve  
 of the plants I bought yesterday  
 and that they will reach  
 you safely - a small branch  
 was broken off one of them  
 when I bought - it. I was  
 very careful in packing  
 them and trust they will  
 not get injured in travelling.  
 The basketmaker's house  
 at the corner of Lovett's garden

*Burlingt. decora*  
*fragrans*  
*rigida*  
*id. the vestita*

*Calogyne cristata*  
*fuscescens* 1  
 " 2  
*Ochraea*  
*Bulbo*

269  
 83

del.

was burnt out yesterday  
morning the fire happened  
about 2 o'clock, through an  
escape of gas, one man  
was burnt to death. I had  
some trouble to get a  
basket, at last I found a  
shop in James St they had  
but a poor stock I did not  
like the one I thought but  
it was the only one I could  
get for which I paid 1/6.

Good Day and twine 2.  
I was obliged to get a boy  
to carry it to Suttons I  
paid him 6/- I did not



again, his cough sounds  
so very hollow it is quite  
frightful to hear him  
it has pulled him down  
very much. I hope this  
Sir I have given you  
satisfaction in what I  
have done. With our  
dutiful respects to yourself &  
dear Mrs Gosse

I remain Your obliged  
and humble servant.

J. H. Brinkman.

P. H. Gosse Esquire



*Oncidium altissimum* 1  
" *Laurencean*  
" *striatum*

223 *Acineta Humboldtii*  
*Aerides Lobbian*

*odoratum* 1  
2

*roseum*  
*maculosum*

*D. i. 142.*

g. c

p. c.

" f.

*Acropera Armeniaca*

*Anactochilus argenteus*

*intermedius*

*marmoratus*

*D. i. 142.*

" - 22

*Angraecum caudatum*

*funale* 1

" 2

*cyclophorum*

*Barkeria elegans*

*Skinneri*

*spectabilis*

*Bletia hyacinthina*

*Shepherdii*

R. m.

*Brassia Lanceana*

*maculata*

K. f.

*Brasavola Digbyana*

*Broughtonia Sang.* 1

" 2

" 3

*Burlingt. decora*

*fragrans*

*rigida*

*cal. the vestita*

*Peristeria elata*

*Phajus maculatus*

*Tankervillei*

*Cattleya Oclandiae* 1

" - Haage

*amethystina*

*amethystina*

*citrina*

*crispa* 1

2  
" - Haage

*elegans*

*labiata* 1

Low

" Haage

*intermedia* 7

*Leopoldi*

*Loddigesii*

*Mossia lactea* 269'

*carnea* 83

31. 8. 71

26. 9. 71

*quadricolor*

*Skinneri*

*superba*

*Triance*

*Daviana* 1

2

*Chocho*

*bulbosa*

*Wallisii*

*Warszewiczii* del.

O. 5

. 15

"

p. b.

225

269 "maxima"

*Chysis bracteosa*

*Linnaei*

*Calogyne cristata*

*fuscescens* 1

2

*ochracea*

*Bulbifera*

|     |                               |          |                         |        |
|-----|-------------------------------|----------|-------------------------|--------|
| 400 | <i>Coryanthes macranthum</i>  | Dendr.   | <i>Jenkinsii</i>        |        |
|     | <i>Cymbidium</i> n. h         |          | <i>Kingianum</i>        | 225.   |
|     | <i>Cypripes. barbatulum</i> 1 |          | <i>insiditulum</i>      |        |
|     |                               | rose     | <i>lituiflorum</i>      |        |
|     |                               | gr. flo. | <i>M'Carthyi</i>        |        |
|     |                               | 4        | <i>macrophyllum</i>     |        |
|     | <i>Hootkiae</i>               |          | <i>moschatum</i>        | 225.   |
|     | <i>hirsutissimum</i>          |          | <i>nobile</i>           |        |
|     | <i>caudatum</i>               |          | <i>nodatum</i>          |        |
|     | <i>insigne</i>                |          | <i>Pierardii</i>        |        |
|     | <i>niveum</i>                 |          | <i>secundum</i>         | Trinck |
|     | <i>Stonei</i>                 |          | <i>speciosum</i>        |        |
|     | <i>Cystopos. Andersoni</i>    |          | <i>sulcatum</i>         |        |
|     | <i>Cyrtorchilum maculatum</i> |          | <i>torquile</i>         |        |
|     | <i>Dendr. adnervum</i>        |          | <i>triadenium</i>       |        |
|     | <i>aggregatum</i>             |          | <i>albo-sanguin.</i>    | Wendro |
|     | <i>barbatulum</i>             |          | <i>Bulgeri</i> 5        |        |
|     | from barbat.                  |          | 6                       |        |
|     | <i>Pensance</i>               |          | 7                       |        |
|     | <i>bicolor</i>                |          | 14                      |        |
|     | <i>Cambidgeanum</i>           |          | A. 142. c.              |        |
|     | <i>chrysanthum</i>            |          | n. d. dark ed           |        |
|     | <i>chrysotoxum</i>            |          | P. c                    |        |
|     | <i>clavatum</i>               |          | " d                     |        |
|     | <i>crepidatum</i>             |          | h. 1.0                  |        |
|     | <i>crumenatum</i>             |          | A. 142. d.              |        |
|     | <i>Dalhousianum</i>           |          | transparens             |        |
|     | <i>Gayannum</i>               |          | from Manila             |        |
|     | <i>densiflorum</i>            |          | <i>Disa grandiflora</i> |        |
|     | <i>dixanthum</i>              |          | <i>melaleuca</i>        |        |
|     | <i>Devonianum</i>             |          | <i>epidendrum</i> 1     |        |
|     | <i>eburneum</i>               |          | " 2                     |        |
|     | <i>Falconeri</i>              |          | <i>cinnabarinum</i>     |        |
|     | <i>Farmeri</i>                |          | <i>crassifolium</i>     |        |
|     | <i>fimbriatum</i>             |          | <i>ambiguum</i>         |        |
|     | <i>formosum</i>               |          | <i>bicornutum</i>       |        |
|     | <i>Gibsoni</i>                |          | <i>crubescens</i>       |        |
|     | <i>heterocarpum</i>           |          | <i>fragrans</i>         |        |
|     |                               |          | " r. h.                 |        |
|     |                               |          | <i>eburneum</i>         |        |
|     |                               |          | <i>variegatum</i>       |        |

*Oncidium* altissimum 1  
 " Laurencean  
 ampliatum  
 barbatum  
 Baskeri  
 aureolum  
 Cavendishianum  
 cecolleta 1

" minor  
 crispum

excavatum  
 flexuosum  
 hastatum  
 luridum

maera thum  
 papilio  
 filipes

Kramerianum  
 phalaenopsis

Rhipsalidis  
 sphacelata

" Tufnell  
 Spencei

microchilum  
 ornithoglossum

strigatum  
 sanguineum

trigatum  
 " R.f.

Sarcodes  
 G. L.

R. h. (L. L. L.)  
 " J. (L. L. L.)

112.

*Peristeria* elata  
*Phajus* maculatus  
 Tankervillei

*Phalaenopsis* Lowii  
 Suddemanni

grandiflora 1  
 " - 2  
 " - 3

Parishii  
 Wrightii

*Pleurothallis* P. h.

*Pleione* lagenaria  
 maculatus  
 Wallisii

*Rodriguezia* secunda

*Saccolabium* ampullaceum  
 Blumei Daz

" "gigant.  
 curvifolium

giganteum  
 guttatum  
 praemorsum

*Schomburgkia* (jamaica)  
 Leticia Seelii

*Sobralia* speciosa  
 " " " " 1

" " " " 2  
 grandiflora

" - longifolia

*Stanhopea* Devoniana  
 oculata

peruviana  
 W. L. L.

O. 2, 9, 16, 17.

*Trichopilia* coccinea  
 saavis  
 tortilis

pid.] *dichromum*  
*macrochilum*  
*stanfordianum*?  
*nemorale*?  
*tigrinum*  
*vitellinum*  
*rhizophorum*  
 g. d.  
 K. e.  
 O. 7  
 P. g.

*Fernandezia robusta*  
*Hartwegia purpurea*  
*Helcia sanguinolenta*  
*Houlletia Brocklehurstii*  
*Sonopsis paniculata*  
*Lelia acuminata*  
*albida*  
 " ? e.  
 " - grandifolia.  
*anceps*  
 " (as above)  
*autumnalis*  
 " - 85  
*Boothiana*  
*crispilabia*  
*cinnabarina*  
*maclatis*  
*Terrinonii*  
*purpurata*  
*superbicans*  
 O. 4  
 " 8

*Leliopsis lilasina*  
*septates bicolor*  
*Limnoria rosea*

*Lycaste aromatica*  
*Harrisonia*  
*Skinneri*

*Maxillaria graminea*  
*venusta*  
*rhynchilum*  
 f. d.  
 O. 1

*Mesospinidium sanguineum*  
*Miltonia candida*  
*Clowesii*  
*Morichiana*  
*spectabilis*  
*Warszewiczii*

*Odontogl. citrosomum*  
*grande* 1  
 " 2  
*Stallii*  
*Inglebyi*  
*coronarium*  
*maculatum*  
*Alexandrae*  
 " - 100

*phalaenopsis*  
*nebulosum*  
*pulchellum*  
*Penatoci*  
*Sindleyanum* 1  
*Crossii* 2  
*etnorum*  
 g. J.  
 " K

*Masdevallia* 1  
 2  
 3  
 4  
 5

*Mormodes pandora*

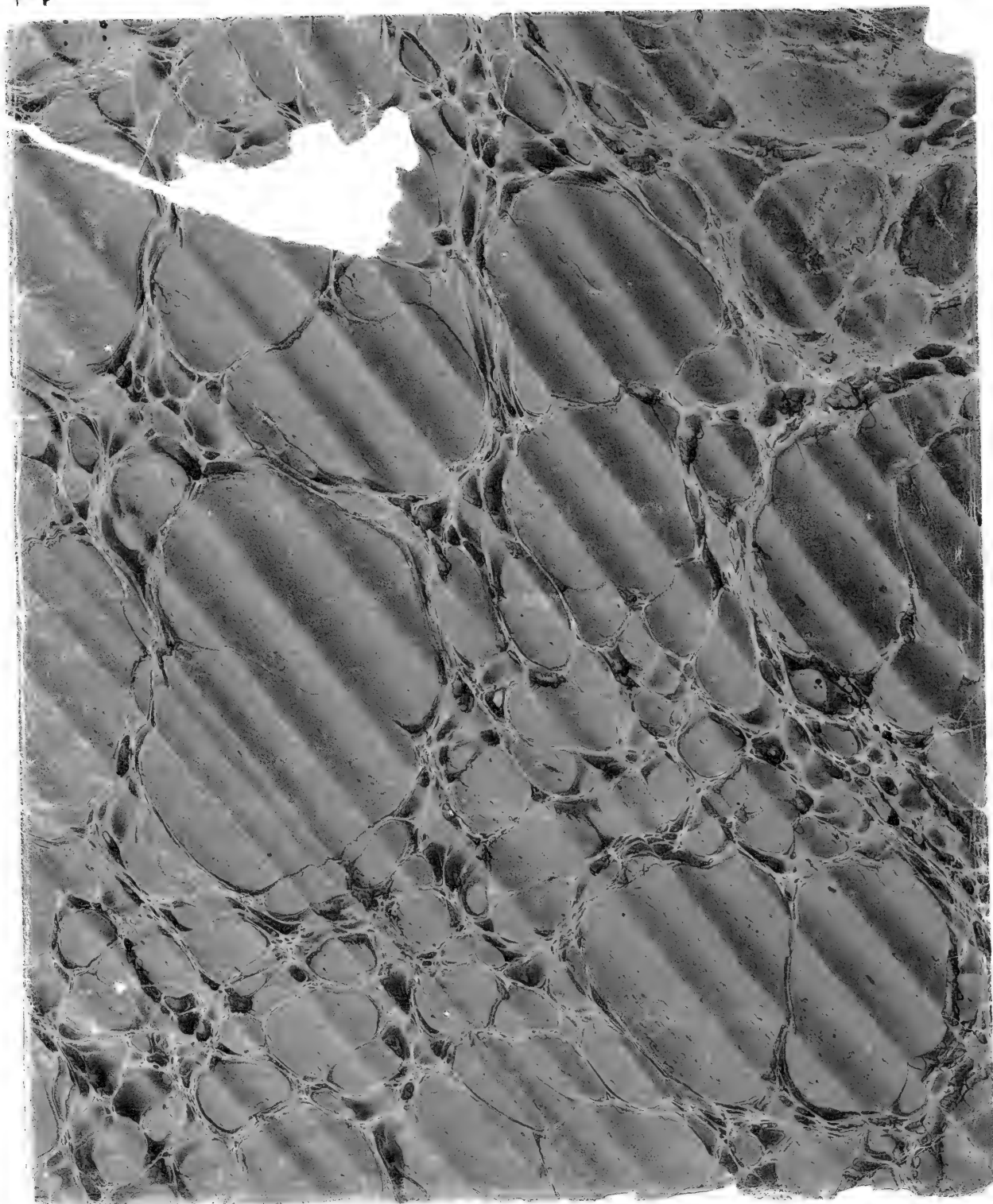
Cattleya labiata.

225. Sep. & pet. pure white - pet. very slightly tinged with rose at midrib & margins. Lip cleft; delicate rosy white. Throat rich pale buff-yellow, rather sharply ending. Feb.

Lactea. S. & P. pure white. Lip minutely serrate, not cleft; - white tinged with rose, scarcely visible except on tube. Thr. is a yellow, running into the lip. Jan., Feb.

viridula. Whole flower rosy-white. Lip cleft, colour gradually deepening on the expanse to rich magenta, deepest at lip. Thr. a set of diverging lines of buff-yellow. Feb.

Quadricolor. S. & P. white, very slightly tinged with rose. Lip cleft; rosy white; at lip a triangular, reniform, patch of rich magenta, well defined, edged with a narrow margin of white. Thr. broadly buff-yellow. Feb.



pid.] *dichromum*

S. 100 8

L  
L  
L  
L  
L



*Orchids that have flowered.*

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pid.] *dichromum*

S. ...

Keep with S

La  
es  
es  
es

Orchids that have flowered p.

id. *dichromum*

10

